Measurement and Correlation of the Thermal Conductivity of *cis*-1,1,1,4,4,4-hexafluoro-2-butene[†§]

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Abstract

New experimental data for the thermal conductivity of *cis*-1,1,1,4,4,4-hexafluoro-2-butene (R-1336mzz(Z)) are reported for vapor, liquid and supercritical states. These data were obtained with transient hot-wire apparatus over the temperature range from 192 K to 498 K and at pressures from 0.05 MPa to 69 MPa. These data were used to develop a wide-range correlation for the thermal conductivity of the vapor, liquid, and supercritical fluid. The experimental data reported here have an uncertainty of 1 % for the liquid and supercritical regions (densities above 600 $kg \cdot m^{-3}$), 1.5 % for vapor and supercritical regions (pressures greater than or equal to 1 MPa and densities less than 200 $kg \cdot m^{-3}$), 3 % for supercritical states (densities between 200 $kg \cdot m^{-3}$ and 600 $kg \cdot m^{-3}$), and 3 % for vapor and supercritical states (pressures below 1 MPa). The thermal-conductivity correlation developed in this work is estimated to have an expanded relative uncertainty, at a 95 % confidence level, ranging from approximately 1.4 % to 4.2 % depending on the temperature and pressure, with larger uncertainties in the critical region.

Keywords *cis*-1,1,1,4,4,4-hexafluoro-2-butene• R1336mzz(Z)•thermal conductivity

Declarations The authors declare no competing financial interest.

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1. **Introduction**

The chemical *cis*-1,1,1,4,4,4-hexafluoro-2-butene, also known as R-1336mzz(Z) is a highly fluorinated butene. It has recently been investigated for applications including as a working fluid in high-temperature heat pumps,[1, 2] for use in Organic Rankine cycles for waste heat recovery from heavy duty internal combustion engines,[3] and for micro-scale low temperature applications.[4] It has a CAS number of 692-49-9, chemical formula $C_4H_2F_6$, and molar mass 164.056 g·mol^{-1}. Part of the interest in this fluid is due to its low global warming potential (100 year time horizon, GWP_{100}) of 2,[5] zero ozone depletion potential (ODP), an atmospheric lifetime of 22 days, a favorable toxicity profile,[6] and that it is non-flammable at 60 °C and 100 °C.[5]

McLinden and Akasaka[7] recently developed an equation of state (EOS) to provide thermodynamic properties of R-1336mzz(Z). In this work, we use this EOS (as implemented in REFPROP[8]) to calculate all densities for given *T,p* state points and for the saturation boundary. The EOS is valid from the triple point (182.65 K) to 500 K at pressures up to 46 MPa and has uncertainties in liquid density of 0.01 % and 0.02 % for vapor densities. In addition, we adopt the critical temperature, pressure, and density consistent with this EOS, namely 444.5 K, 2.903 MPa, and 3.044 mol·l^{-1}(499.386 464 kg·m^{-3}). The viscosity of R-1336mzz(Z) was investigated by Miyara et al.[9] and Alam et al.[10] and most recently by Sun et al.[11] In a separate study, Alam et al.[12] presented measurements of the thermal conductivity of R-1336mzz(Z) of the liquid and the gas phase at pressures to 4 MPa and also included simplified correlations for the thermal conductivity of both the saturated liquid and vapor. The data of Alam et al.[12] were used to develop a corresponding-states-based model for the full thermal conductivity surface,[13] but the lack of adequate data over a wide range of temperatures and pressures limits model development. There remains a need for comprehensive thermal conductivity measurements for R-1336mzz(Z) over a wide range of temperatures and pressures covering state points in the gas, liquid, and supercritical regions.

In this work, we report wide-ranging measurements for the thermal conductivity of R-1336mzz(Z) with temperatures ranging from 192 K to 498 K and with pressures up to 69 MPa. We use these data to develop a correlation for R-1336mzz(Z) that is valid from the triple point to 500 K at pressures up to 70 MPa for all fluid states including gas, liquid and

supercritical states over this range of conditions. This correlation requires extrapolation of the equation of state**[7]** for pressures above 46 MPa.

2. Experimental

The thermal conductivity of R-1336mzz(Z) was measured over a wide range of temperature and pressure with a transient hot-wire apparatus. The following sections presents details on the sample and the experimental technique.

2.1. Sample Material. The R-1336mzz(Z) sample was supplied by Chemours in a 1000 cm^3 steel gas cylinder, and was also used in a companion study at our institute to develop an equation of state[7]. The supplier reported a purity of 0.9999 mole fraction. Our own analysis by gas chromatography/quadrupole time-of-flight mass spectrometry (GC/QToF-MS) indicated a purity of 0.9999 mole fraction. The sample was degassed by multiple freeze-thaw cycles in liquid nitrogen with evacuation of the vapor space until the final pressure over the frozen sample was $<1\times10^{-4}$ Pa. Table 1 gives the characterization of the sample.

2.2. Hot-Wire Systems. We measured the thermal conductivity using two different hot-wire systems that covered the temperature range from 192 K to 498 K. The low-temperature system can measure thermal conductivity at temperatures from 60 K to 345 K and has a copper cell with sample volume of 25 ml with two hot wires for cancellation of axial conduction effects.

The high-temperature system can measure thermal conductivity at temperatures from 300 K to 750 K and can be used with both single-wire and double-wire cells. The high-temperature single-wire cell had a volume of 5 ml and was made from 316 stainless steel. In both hot-wire cells, small platinum hot wires of 12.7 μm diameter approximate line-source electrical heaters and simultaneously function as resistance thermometers to measure the temperature rise. The resistance of each of the hot wires is calibrated in-situ as a function of the measured temperature and pressure so that the measurement of the resistance increase permits the determination of the temperature increase. The steady-state mode was used for vapor-phase measurements, while transient measurements were used

for the liquid, vapor, and supercritical fluid states of R-1336mzz(Z). Due to the increasing thermal diffusivity of the gas with decreasing pressure at low pressures (which leads to increasingly more significant corrections to transient measurements for finite wire diameter and penetration to the outer boundary), the steady-state measurements have lower uncertainty for dilute-gas measurements compared to transient measurements.

At low temperatures (below 343 K), the thermal conductivity was measured with the low-temperature cryostat system.[14] The temperature of this hot-wire cell is controlled with a multilayer copper cryostat cooled by immersion in liquid nitrogen. The two hot-wires are supported at the top of their respective cylindrical cavities of 9 mm diameter and are tensioned with small weights at the bottom end. A Wheatstone bridge records the difference between the response of the long and short hot wires. The recorded bridge signal is effectively from the central portion of the long wire with the two half-lengths of the short-wire response removed. It is this region, near the wire end supports, where axial temperature gradients exist during an experiment. The initial cell temperature, T_i, is measured with an expanded uncertainty of $U(T_i)$=0.005 K with a platinum resistance thermometer. The fluid pressure, p_e, is determined with a quartz pressure transducer with an expanded uncertainty of $U(p_e)$=7 kPa over the pressure range from (0 to 69) MPa.

At higher temperatures (from 311 K to 498 K), the thermal conductivity was measured with a high-temperature thermostat system. The thermostat consists of a DC-powered furnace with an isothermal shield enclosing the hot-wire cell. The single platinum hot wire is supported at the top and tensioned with a spring arrangement at the bottom in a commercial microreactor with an 8 mm diameter bore. As in the low-temperature apparatus, a Wheatstone bridge circuit is used to measure the resistance increase and temperature rise of the wire. The correction for axial conduction during data analysis for the single-wire cell is based on the model of Woodfield et al.[15] The initial cell temperature, T_i, is measured with an expanded uncertainty of $U(T_i)$=0.005 K with a platinum resistance thermometer. The fluid pressure, p_e, is determined with a quartz pressure transducer with an expanded uncertainty of $U(p_e)$=7 kPa over the pressure range from (0 to 69) MPa. All reported expanded uncertainties are for a coverage factor of k=2, approximately a 95 % confidence interval.

2.3. Transient Measurements.

The hot-wire systems used in this work were designed based upon the early work of Healy *et al.*[16] In this approach, the ideal temperature rise, ΔT_{id}, is given by

$$\Delta T_{id} = \frac{q}{4\pi\lambda}\left[\ln(t) + \ln\left(\frac{4a}{r_0^{\,2} C}\right)\right] = \Delta T_{w} + \sum_{i=1}^{10} \delta T_i \,, \tag{1}$$

where q is the applied power per unit length, λ is the fluid thermal conductivity, t is the time elapsed after application of power, ρ is the fluid density, C_p is the fluid isobaric specific heat capacity, $a = \lambda/(\rho C_p)$ is the fluid thermal diffusivity, r_0 is the hot-wire radius, and C is the exponential of Euler's constant. The ideal temperature rise is related to the measured temperature rise of the wire, ΔT_w, and the summation of the temperature rise corrections, δT_i.[16] The thermal conductivity is determined from the slope of a plot of ΔT_{id} as a function of $\ln(t)$ and the thermal diffusivity is found from the intercept. However, in the present work, we consider only the thermal conductivity from the slope of the fit line. During data analysis, a line is fit to Eq. 1 over an optimum time interval, typically from 0.1 s to 1.0 s where the magnitude of the corrections is small. The experimental temperature, T_e, associated with the thermal conductivity is the average wire temperature over the time interval that was fit for each experiment.

Four corrections were found to be significant during the present measurements on R-1336mzz(Z). The correction accounting for the finite diameter and heat capacity of the hot wire was generally the largest for both gas and liquid measurements at short experiment times of less than 0.1 s. As discussed above, the correction for finite wire length is not required for the low-temperature double-wire cell but is required for the high-temperature single-wire cell. The correction for finite wire length remains small relative to the finite wire diameter and outer boundary corrections for wires with a large length to diameter ratio like those used in the present work. The full heat correction for finite wire diameter[16] was applied to the present measurements.

Depending upon the thermal diffusivity of the gas and experimental elapsed time, it is possible for the transient temperature gradient to penetrate to the cavity wall during measurements of dilute-gas states.[15-20] Thus, the outer boundary correction also becomes very significant for some dilute-gas states. The end time for the fit interval was

determined such that fluid convection was not significant, especially important for measurements in the critical region, and the outer boundary correction remained small during dilute-gas measurements. An experiment duration of 1 s was considered optimal for most transient experiments in the vapor, liquid, and supercritical states. A few dilute-gas experiments required reduction of the upper fit limit to times less than 1 s due to the large fluid thermal diffusivity, as did a few experiments near the gas-liquid critical point due to increasing fluid convection.

In the present hot-wire experiments, the thermal radiation correction remains relatively small at temperatures up to 500 K since, for small temperature rises, the thermal radiation correction is approximately proportional to T^3 (T_1-T_2). In both the gas and liquid phases we applied the transparent fluid correction.[16]

2.4. Steady-State Measurements. Previous work[15, 21] has demonstrated for dilute-gas samples, that steady-state hot-wire measurements are reliable and require smaller corrections than transient hot-wire measurements. The steady-state solution of Fourier's law for concentric cylinders gives the fluid thermal conductivity, λ,

$$\lambda = \frac{q \ln\left(\frac{r_2}{r_1}\right)}{2\pi(T_1 - T_2)}, \tag{2}$$

in terms of the cell geometry and temperature rise for a given applied power per unit length, q. In Eq. 2, r_1 and T_1 are the radius and temperature of the hot wire, while r_2 and T_2 are the radius and temperature of the concentric cylindrical cavity containing the fluid. Due to the large mass and heat capacity of the cell, the temperature T_2 is assumed to be constant at the initial cell temperature measured with the platinum resistance thermometer.

A detailed discussion of steady-state measurements of dilute gases with the transient hot-wire method is given by Roder et al.[21] Fluid convection corrections increase with increasing pressure and density in the dilute gas, but at pressures below 0.7 MPa remain small. The transparent fluid correction for thermal radiation is applied in the present work. Due to the small wire diameter, the correction for eccentricity between the hot wire and the outer boundary is small.

3. Experimental Results

The thermal conductivity data for R-1336mzz(Z) are available in the Supporting Information. At each initial state point there are generally five transient or steady-state experimental results. The Helmholtz EOS of McLinden and Akasaka[7, 8] was used to calculate the densities reported in the Supporting Information. It also was used to obtain corrections required during analysis of the hot-wire temperature rise data at each measured temperature and pressure. Figure 1 shows the temperature and pressure range covered by the present measurements along with the saturation boundary for R-1336mzz(Z)[7, 8] calculated by the EOS. There were 134 transient vapor and 661 transient liquid measurements at temperatures from 192 K to 344 K, with pressures up to 69 MPa, reported from the low-temperature double-wire instrument. There were 491 steady-state vapor, 542 transient vapor, and 662 transient liquid measurements at temperatures from 311 K to 498 K reported from the high-temperature single-wire instrument. There were 804 transient supercritical measurements at temperatures from 457 K to 498 K reported from the high-temperature single-wire instrument. The average temperatures of the 14 transient vapor isotherms were (303, 312, 313, 328(twice), 341, 343, 356, 370, 385, 399, 414, 429, and 444) K. The 328 K vapor isotherm was measured in both the high-temperature and in the low-temperature apparatus. The average temperatures of the 13 steady-state vapor isotherms were (312, 327, 340, 355, 369, 384, 398, 414, 428, 443, 458, 478, and 497) K. Three supercritical isotherms at (458, 478, and 498) K were measured in the transient mode. The average temperatures of the 11 liquid isotherms were (192, 223, 252, 282, 312 (twice), 341, 342, 370, 399, and 428) K. The 312 K liquid isotherm was measured in both the low-temperature and in the high-temperature apparatus. Figure 2 shows the measured thermal conductivity data as a function of the calculated density. The critical enhancement is significant near the critical density for the subcritical and supercritical isotherms near the critical point. Figure 2 shows the strong dependence of the thermal conductivity on density that will be the basis of the correlation described below.

The expanded uncertainty of the reported thermal conductivity is 3 % for the gas phase at pressures below 1 MPa and 1 % for the liquid-phase measurements for the low-temperature double-wire cell. The expanded uncertainty of the reported thermal

conductivity is 1.5 % for the vapor and supercritical measurements at pressures above 1 MPa and densities below 200 kg·m^{-3}, 3 % for gas measurements at pressures less than 1 MPa and for the supercritical isotherms for densities between 200 kg·m^{-3} and 600 kg·m^{-3} for the high-temperature single-wire cell. The expanded uncertainty is 1 % for the liquid phase and supercritical measurements from the high-temperature single-wire cell at densities above 600 kg·m^{-3}.

The steady-state thermal conductivity data have an expanded uncertainty of 3 %. All steady-state measurements are gas at low pressures (less than 0.7 MPa). In the Supporting Information, the tables of steady-state data provide the Rayleigh number, calculated according to the procedure given in Ref.([21]), that characterizes the level of convection during each experiment.

4. Correlation

The thermal conductivity λ is represented as a sum of three contributions,

$$\lambda(\rho,T) = \lambda_0(T) + \Delta\lambda_r(\rho,T) + \Delta\lambda_c(\rho,T), \tag{3}$$

where λ_0 is the thermal conductivity of the dilute gas, which depends only on temperature, $\Delta\lambda_r$ is the residual thermal conductivity, which depends strongly on density and more weakly on temperature, and $\Delta\lambda_c$ is the thermal conductivity critical enhancement, which increases dramatically in the critical region. Both $\Delta\lambda_r$ and $\Delta\lambda_c$ are functions of temperature, T, and molar density, ρ, with ρ calculated with an equation of state for each experimental T and P. In this work, we use the Helmholtz EOS of McLinden and Akasaka[7, 8] which is valid at temperatures from the triple point, 182.65 K, to 500 K with pressures up to 46 MPa. The EOS was developed with methodology to support good extrapolation capability, and we use extrapolated results from the EOS to provide densities at pressures between 46 MPa and 69 MPa.

4.1. Dilute-gas thermal conductivity. The dilute-gas thermal conductivity of R-1336mzz(Z) is represented as a polynomial in reduced temperature,

$$\lambda_0(T_r)/(\mathrm{W\cdot m^{-1}\cdot K^{-1}}) = \frac{0.001\sqrt{T_r}}{\sum_{j=0}^{2} a_j \left(\frac{1}{\sqrt{T_r}}\right)^j}, \tag{4}$$

with coefficients a_j, given in Table 2, where T_r is the reduced temperature T/T_c where T is the temperature and T_c is the critical temperature.

4.2. Residual thermal conductivity. A polynomial in temperature and density is used to represent the residual contribution to the thermal conductivity of R-1336mzz(Z),

$$\Delta\lambda_r(\rho,T)/(\mathrm{W\cdot m^{-1}\cdot K^{-1}}) = \sum_{i=1}^{5}(B_{1,i}+B_{2,i}(T/T_c))(\rho/\rho_c)^i. \quad (5)$$

with coefficients $B_{i,j}$ given in Table 2, where ρ is the molar density and ρ_c is the critical density. This functional form has been used successfully to represent the thermal conductivity of several promising new refrigerants such as (1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone,[22] R-1234yf,[23] R-1234ze(E),[23] and R-1233zd(E).[24]

4.3. Critical Enhancement. The theoretically based mode-coupling theory of Olchowy and Sengers[25] accurately describes the thermal conductivity enhancement in the critical region. A simplified version of their crossover model [26] is used for the thermal conductivity of R-1336mzz(Z),

$$\Delta\lambda_c(T,\rho)/(\mathrm{W\cdot m^{-1}\cdot K^{-1}}) = \frac{\rho C_p R_0 k_B T}{6\pi\eta\xi}\left(\Omega-\Omega_0\right), \quad (6)$$

where the isobaric heat capacity, $C_p(T,\rho)$, is obtained from the EOS,[7] R_0 = 1.02 is a universal constant,[27] k_B is Boltzmann's constant, and the viscosity, $\eta(T,\rho)$, is obtained from the extended corresponding states correlation of Huber.[13] In Eq. (6), ρ is in mol·m^{-3}, C_p is in J·mol^{-1}·K^{-1}, k_B is in J·K^{-1}, T in K, η is in Pa·s, and the correlation length ξ defined below is in m.

In addition, the crossover functions Ω and Ω_0 in Eq. (6) depend upon the correlation length and are given by

$$\Omega = \frac{2}{\pi}\left[\left(\frac{C_p - C_V}{C_p}\right)\arctan(q_d\xi) + \frac{C_V}{C_p}(q_d\xi)\right], \tag{7}$$

$$\Omega_0 = \frac{2}{\pi}\left[1 - \exp\left(\frac{-1}{(q_d\xi)^{-1} + \frac{1}{3}\left(\frac{(q_d\xi)\rho_c}{\rho}\right)^2}\right)\right]. \tag{8}$$

The isochoric heat capacity, $C_V(T, \rho)$, is obtained from the EOS, with the correlation length ξ given by

$$\xi = \xi_0\left[\frac{P_c\rho}{\Gamma\rho_c^2}\right]^{\nu/\gamma}\left[\left.\frac{\partial\rho(T,\rho)}{\partial P}\right|_T - \frac{T_R}{T}\left.\frac{\partial\rho(T_R,\rho)}{\partial P}\right|_T\right]^{\nu/\gamma}, \tag{9}$$

where the critical amplitudes Γ and ξ_0 are system-dependent and are determined by the asymptotic behavior of the equation of state in the critical region. The partial derivative $\partial\rho/\partial P|_T$ is evaluated with the EOS at the system temperature T and at a reference temperature, T_R. For the reference temperature, we select a value where the critical enhancement is found to be negligible: $T_R = 1.5T_c$. The exponents $\gamma = 1.239$ and $\nu = 0.63$ are universal constants.[26] We used fluid specific values of the critical amplitudes calculated from the generalized method of Perkins et al.,[28] $\Gamma = 0.058$ and $\xi_0 = 2.21\times10^{-10}$ m. The cutoff wave number q_d (or, alternatively, its inverse, q_d^{-1}) is sensitive to thermal conductivity data in the critical region and is fit to the present R-1336mzz(Z) thermal conductivity data.

4.4. Data Fitting. The dilute-gas measurements were fit first to obtain the coefficients of the dilute gas in the limit of zero density, Eq. (4). The data for gas-phase isotherms were extrapolated to zero density, and these points, along with estimated points at very high temperatures (2000 K and 5000 K) and one low-temperature point (200 K) were fit to obtain the values in Table 2. The estimated values were obtained from a method described in Huber;[13] these points are included only to loosely guide the extrapolation behavior to eliminate unphysical behavior such as poles or negative values. The complete experimental

data set including the data from Alam et al.[12], with the dilute-gas coefficients fixed, was then fit with the fitting program ODRPACK[29] to obtain the coefficients B_{ij} in Eq. (5), given in Table 2, and the value of q_d^{-1} for the critical enhancement in Eqs. (6-9). We found q_d^{-1} = 0.955 nm.

The validity of the fitted coefficients in Table 2 was checked by comparisons of the standard deviation of each coefficient relative to the coefficient itself. In all cases, the standard deviation was at least an order of magnitude smaller than the coefficient. The behavior of the correlation was examined and found to be smooth with reasonable extrapolation behavior. Although the EOS is limited to 46 MPa, we use it to obtain density values up to 69 MPa as we expect the extrapolation to be reliable for these pressures. Table 3 provides calculated values of the thermal conductivity at several temperatures and pressures that allow readers to verify computer coding of the correlation reported here. Values of pressure shown in Table 3 are computed from the EOS of McLinden and Akasaka[7, 8] at the specified temperatures and densities in Table 3.

4.5. Data Deviations. The present work reports 3294 measurements of thermal conductivity of R-1336mzz(Z) in the liquid, gas, and supercritical regions from T = 192 K to 498 K at pressures to 69 MPa. Figure 3 shows deviations of the present experimental data and the data of Alam et al.[12] from the new correlation as a function of density over the temperature range from 302 K to 498 K for densities up to 60 kg·m^{-3}, which corresponds to pressures no greater than 1 MPa. Figure 4 shows the deviations between the measurements and the correlation over the entire density range of the measurements at temperatures from 192 K to 498 K with pressures up to 69 MPa. Although the gas-phase data of Alam et al.[12] are consistent with our measurements, their liquid-phase measurements are systematically ~8 to 10 % lower than our measurements. Our liquid-phase measurements were made in two different apparatus and are in agreement with each other. We do not at present have an explanation for the discrepancy with the data of Alam et al.[12] Figures 5 and 6 show deviations between all the thermal conductivity data and the correlation as a function of measured temperature and pressure, respectively. There are some single-wire steady-state vapor points shown in Figures 3 and 4, at densities between (30 and 40) kg·m^{-3}, and Figure 5 near 360 K, with large relative deviations exceeding 8 %,

likely due to convection. Finally, Figure 7 shows the data and the correlation for the supercritical isotherm at 458 K, which displays a noticeable critical enhancement.

One may note that there is a positive bias in some of the deviations that is most clearly visible in Figure 3. We based the dilute gas fit on the transient double wire (low temperatures) and the transient and steady-state results from the high-temperature single wire apparatus. Steady-state results are most accurate at the lowest densities where convection is not an issue. At increasing densities there is increased influence from convection as indicated by the Rayleigh number reported in the supporting information. We ultimately stop reporting steady-state data when the uncertainty due to this convection exceeds the uncertainty we report. However, any convection contribution remains systematically higher. It is never less than zero. The transient results have the opposite behavior with increasing uncertainty as the density decreases below 1 MPa due to increasing corrections for the finite wire diameter and for the outer boundary due to strongly increasing thermal diffusivity as the pressure/density is decreased. The transient results with these corrections applied tend to be systematically higher than they should be as the density is decreased. Thus, both the transient and steady-state results have regions that are systematically higher but still within the quoted uncertainty. The wide-range surface fit is further constrained by the density dependence at higher pressures and densities, with lower uncertainty, which seems to highlight the systematic nature of these deviations. This leads to the systematically higher data deviations in the low-density vapor.

The low-density gas-like data at pressures up to 1 MPa have an average absolute deviation (AAD) of 2.8 % for both the transient and steady-state measurements. We estimate the expanded uncertainty of the correlation in this region to be 4.2 % at a 95 % confidence level. For the liquid phase at pressures up to 69 MPa, the average absolute deviation between the measurements and the correlation is 0.5 % and the expanded uncertainty is estimated to be 1.4 % over the temperature range 192 K to 429 K. For the supercritical region, we estimate the uncertainty to be 2.8 % for densities below 200 $kg \cdot m^{-3}$, 1.8 % for intermediate densities between 200 and 800 $kg \cdot m^{-3}$, and 1.6 % for densities above 800 $kg \cdot m^{-3}$. The correlation represents the data at pressures to 69 MPa in a physically reasonable way even at pressures that exceed the recommended upper pressure limit (46 MPa) of the equation of state of McLinden and Akasaka.[7] A REFPROP[8]-compatible

file implementing this correlation is available from the authors; it was not available at the time of the release of REFPROP version 10.0.

5. Conclusions

A total of 3294 points are reported for the thermal conductivity of R-1336mzz(Z) in the liquid, gas, and supercritical regions at pressures to 69 MPa. The experimental data reported here have an expanded uncertainty at a 95 % confidence level of 1 % for liquid measurements increasing to 3 % for gas at low pressures (less than 1 MPa) and in the critical region. Based on these measurements, a correlation is developed for the thermal conductivity surface of R-1336mzz(Z) covering the liquid, gas, and supercritical regions that may be used from the triple point to 500 K and pressures up to 70 MPa.

Supporting Information

Tabulated experimental values (73 pages) are reported in the supporting information and are available at XXXXXXXXXX?

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Table 1. Sample Summary Table.

Chemical Name	Source	Initial Mole Fraction Purity	Purification Method	Final Mole Fraction Purity	Analysis Method
cis-1,1,1,4,4,4-hexafluoro-2-butene[a]	Chemours	0.9999	Freeze-Thaw Degassing	0.9999	GC/QToF-MS[b]

[a] Also known as R-1336mzz(Z), CAS number 692-49-9.
[b]Gas chromatography/quadrupole time-of-flight mass spectroscopy

Table 2. Parameters for the dilute-gas and residual thermal conductivity of Eqs. 4 and 5 for R-1336mzz(Z).

Dilute-Gas Thermal Conductivity of Eq 4		
j	a_j **/ (W·m^{-1}·K^{-1})$^{-1}$**	
0	0.033207	
1	-0.089513	
2	0.101275	
Residual Thermal Conductivity of Eq 5		
i	***j***	B_{ij} **/ (W·m^{-1}·K^{-1})**
1	1	0.0182670
1	2	0.105672
1	3	-0.119719
1	4	0.0431845
1	5	-0.00497023
2	1	-0.0138014
2	2	-0.0756253
2	3	0.0919892
2	4	-0.0327931
2	5	0.00384035

Table 3. Values of thermal conductivity calculated for R-1336mzz(Z) with the correlation (Eq. 3 to 9) at specified T and ρ, with the coefficients in Table 2. The value of viscosity used for T=450 K and ρ =500.0 kg·m^{-3} is 29.937 μPa·s, calculated with the correlation of Huber.[13]

T / K	ρ / (kg·m^{-3})	p / MPa*	λ / (W·m^{-1}·K^{-1})
300.0	0.00	0.00	0.011056
300.0	1363.0	0.98613	0.078701
450.0	0.00	0.00	0.022723
450.0	500.0	2.3261	0.053990
450.0	500.0	2.3261	0.038462**

* Pressures calculated with the equation of state of McLinden and Akasaka[7, 8]
**Calculated with critical enhancement = 0.

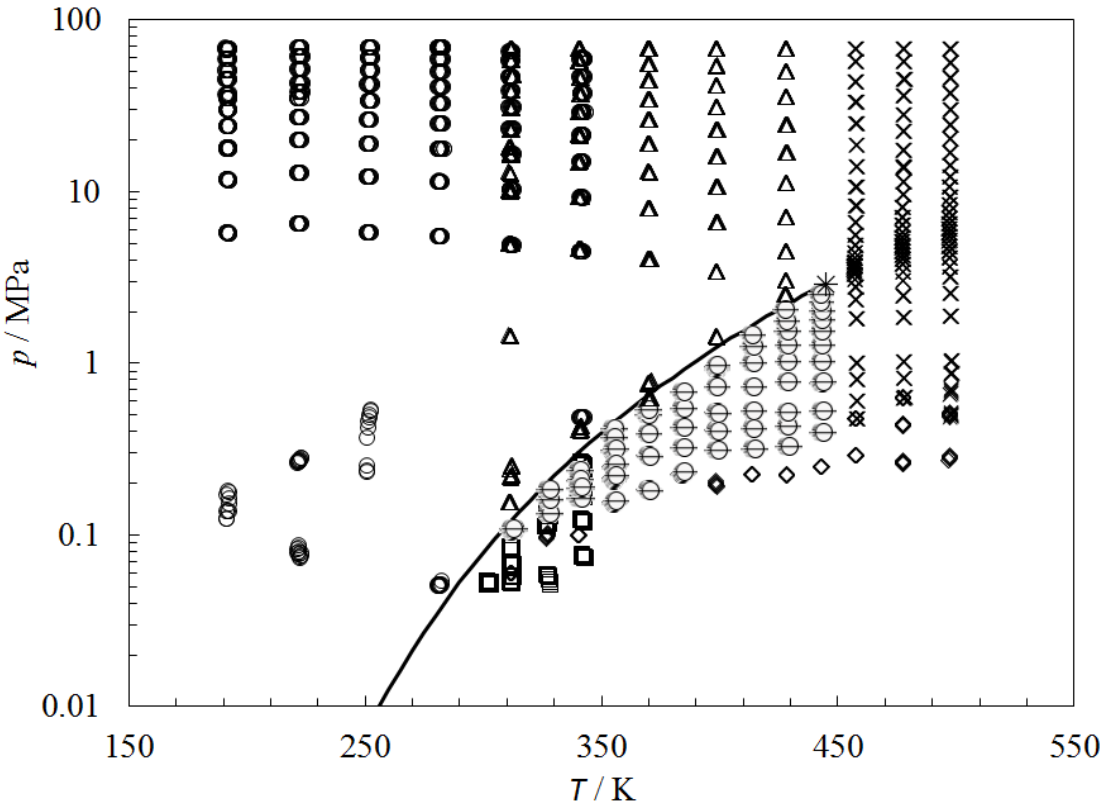

Figure 1. Distribution of the data for the thermal conductivity of R-1336mzz(Z): □, double-wire transient vapor; ◇, single-wire steady-state vapor; ○, double-wire transient liquid; ×, single-wire supercritical; ⊖, single-wire transient vapor; △, single-wire transient liquid. The solid curve shows the vapor-liquid saturation boundary, terminating at the critical point, ✳

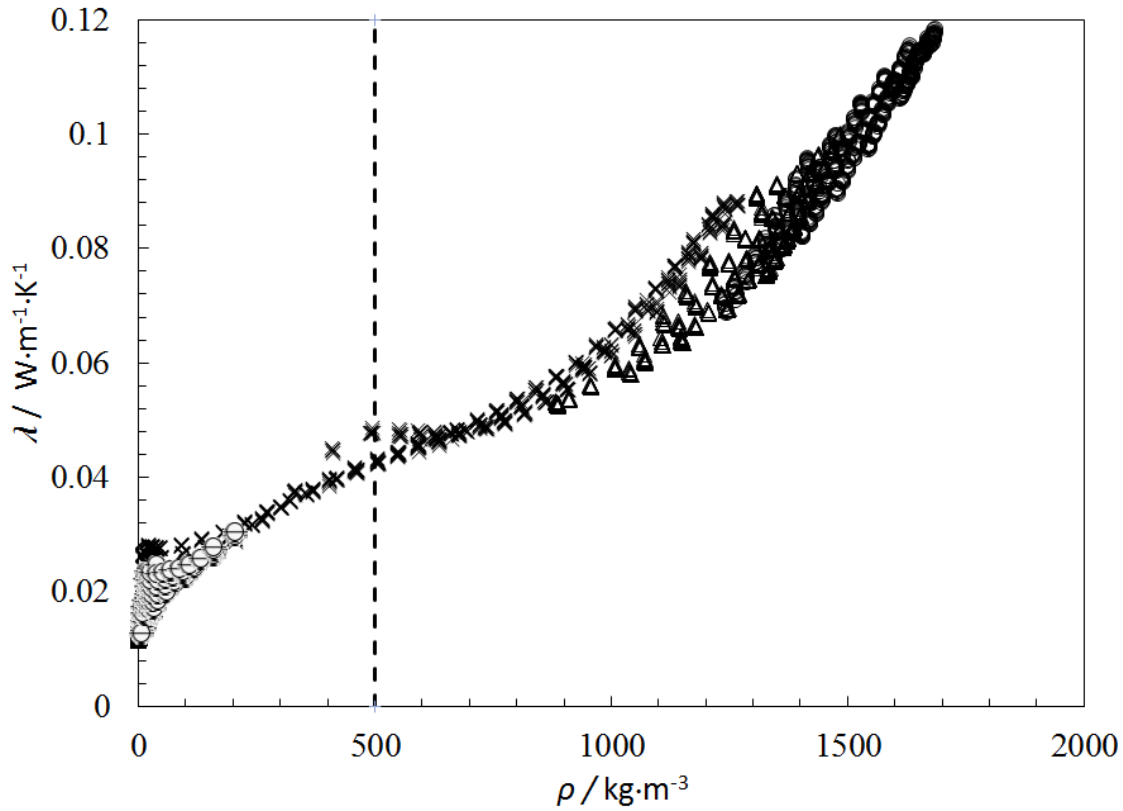

Figure 2. Thermal conductivity of R-1336mzz(Z) as a function of the density calculated at the measured temperature and pressure: □, double-wire transient vapor; ◇, single-wire steady-state vapor; ○, double-wire transient liquid; ×, single-wire supercritical; ⊖, single-wire transient vapor; △, single-wire transient liquid. The critical density is indicated by the dashed line.

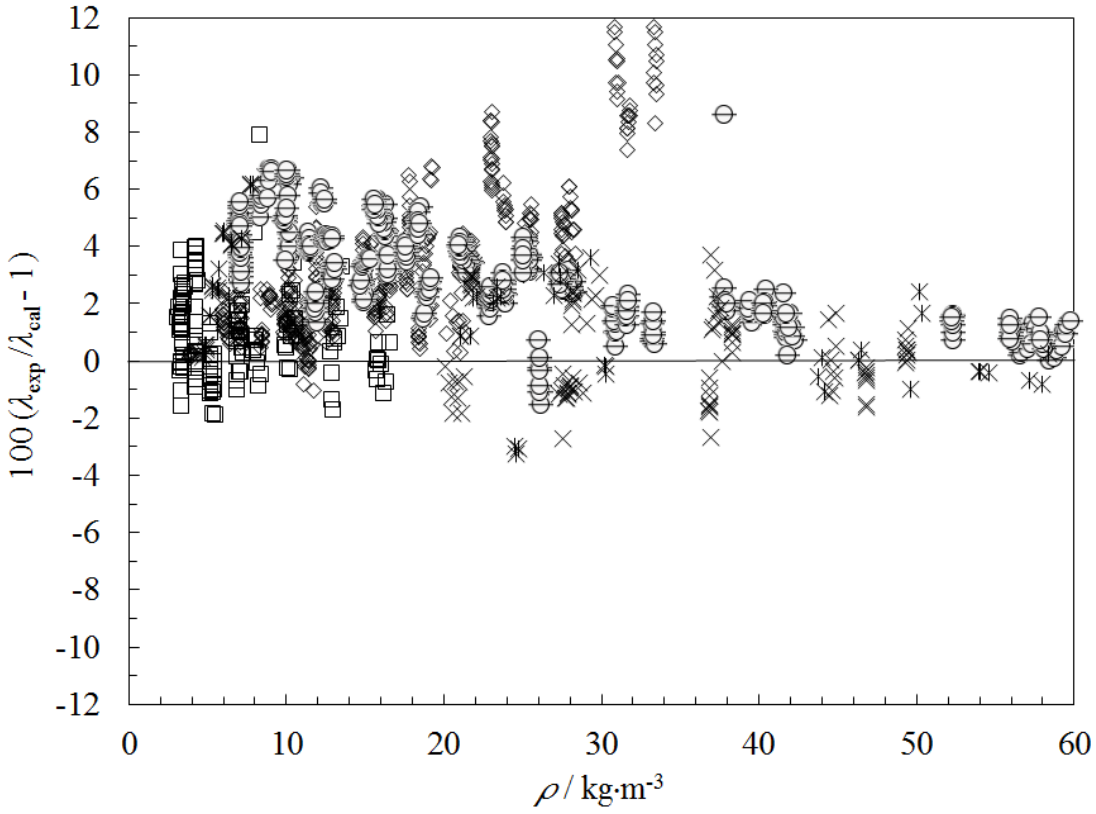

Figure 3. Relative deviation between the experimental data and the correlation for the thermal conductivity of R-1336mzz(Z) as a function of density for the gas and supercritical phases at pressures up to 1 MPa (□, double-wire transient vapor; ◇, single-wire steady-state vapor; ×, single-wire supercritical; ⊖, single-wire transient vapor) ; ∗, Alam et al.[12]

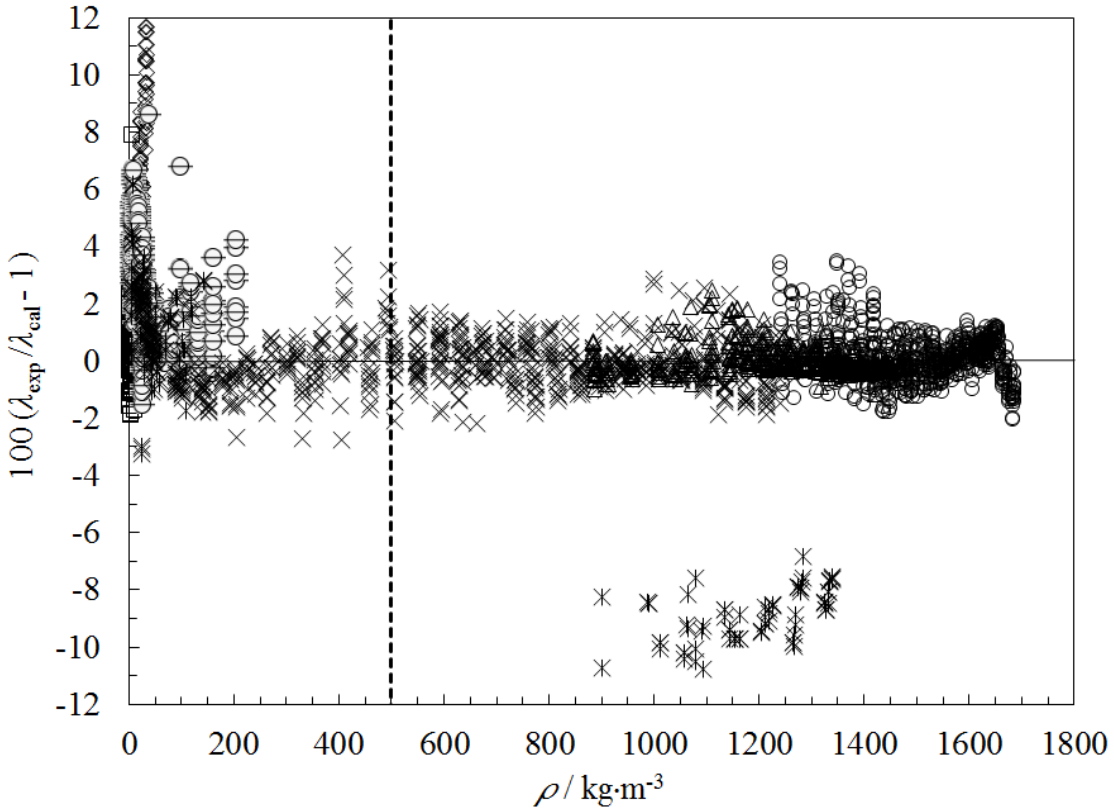

Figure 4. Relative deviation between the experimental data and the correlation for the thermal conductivity of R-1336mzz(Z) as a function of density: □, double-wire transient vapor; ◇, single-wire steady-state vapor; ○, double-wire transient liquid;×, single-wire supercritical;⊖, single-wire transient vapor; △, single-wire transient liquid; ✳ , Alam et al.[12]. The critical density is indicated by the dashed line.

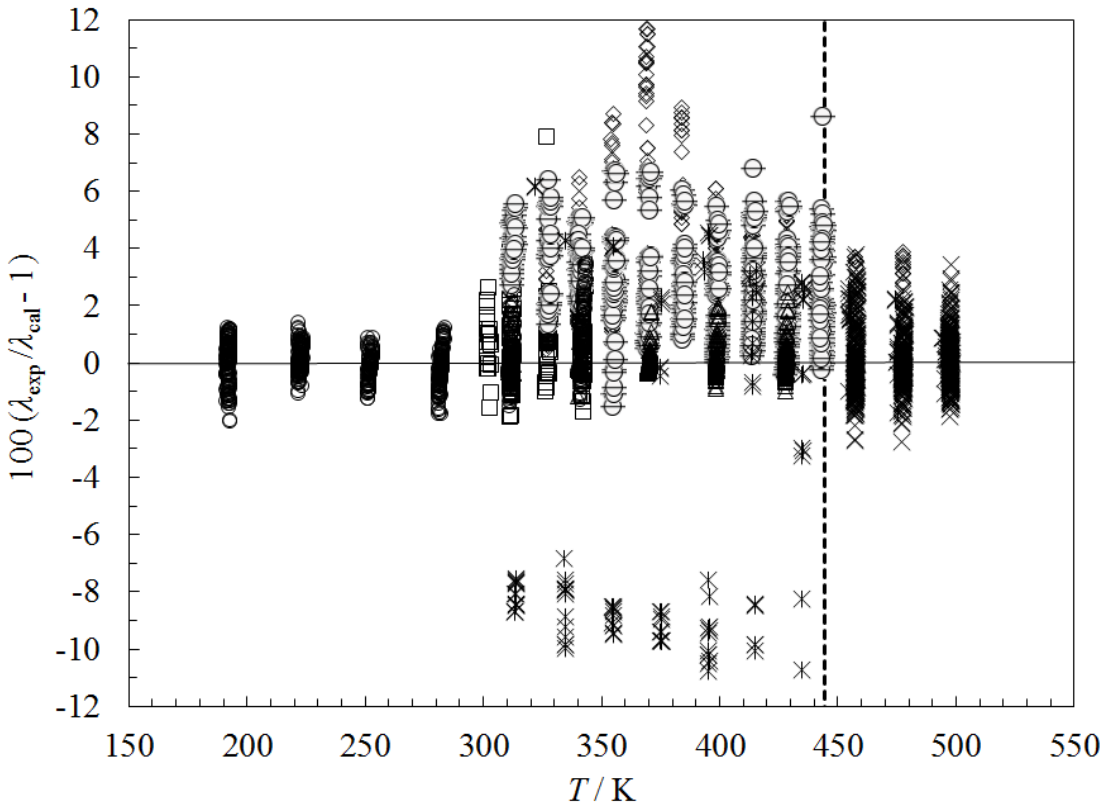

Figure 5. Relative deviation between the experimental data and the correlation for the thermal conductivity of R-1336mzz(Z) as a function of temperature: □, double-wire transient vapor; ◇, single-wire steady-state vapor; ○, double-wire transient liquid; ×, single-wire supercritical; ⊖, single-wire transient vapor; △, single-wire transient liquid. ; ✳, Alam et al.[12]. The critical temperature is indicated by the dashed line.

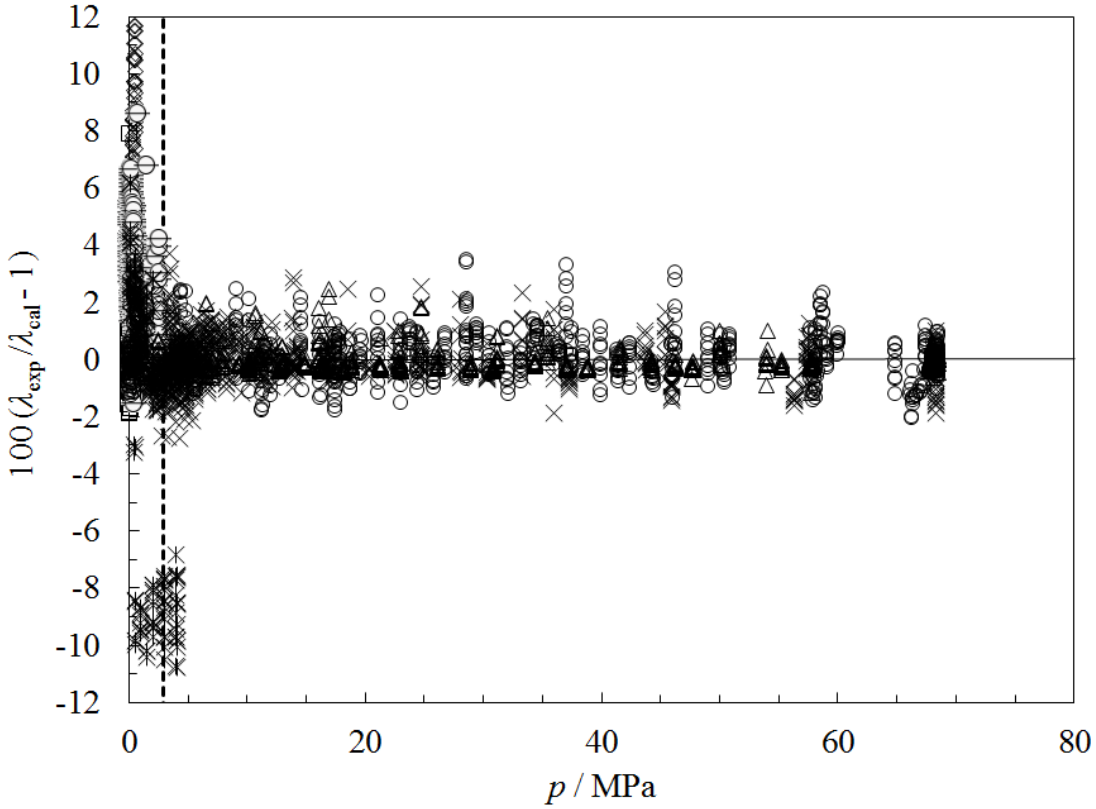

Figure 6. Relative deviation between the present experimental data and the correlation for the thermal conductivity of R-1336mzz(Z) as a function of pressure: □, double-wire transient vapor; ◇, single-wire steady-state vapor; ○, double-wire transient liquid; ×, single-wire supercritical; ⊖, single-wire transient vapor; △, single-wire transient liquid.; ✳, Alam et al.[12]. The critical pressure is indicated by the dashed line.

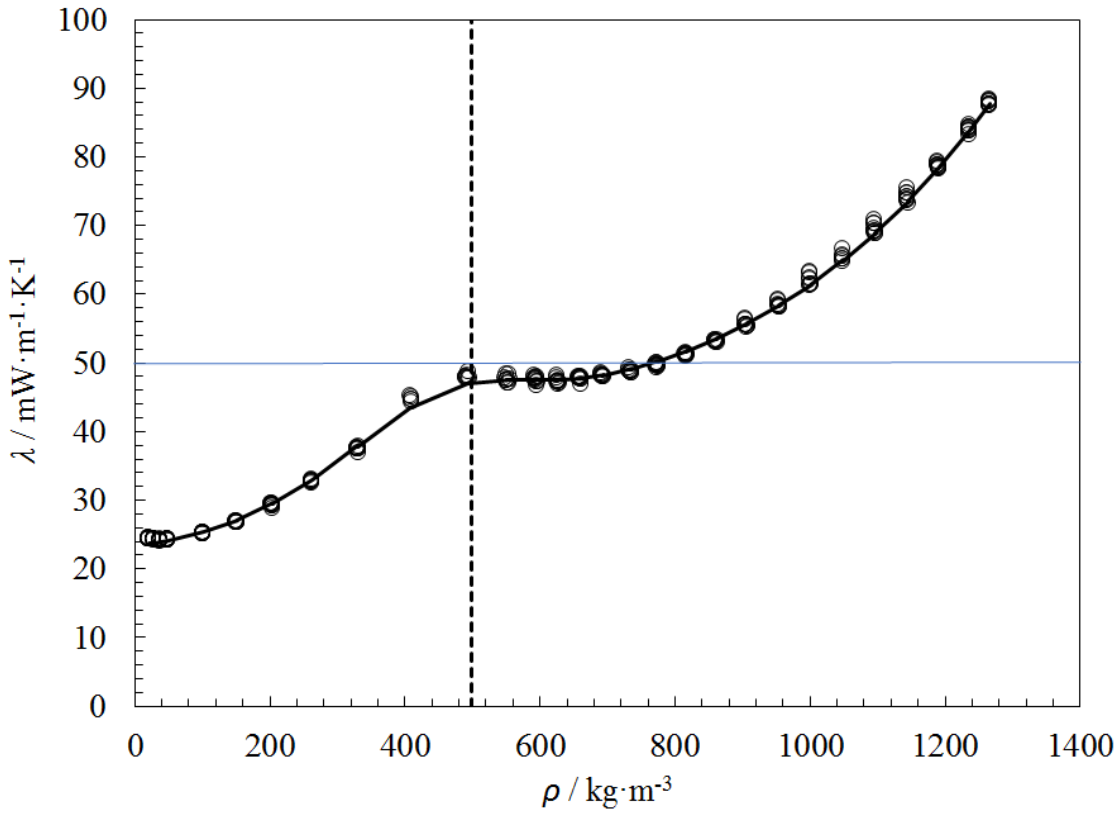

Figure 7. Supercritical isotherm at 458 K. The circles are the experimental data, and the solid curve is the correlation. The dashed line indicates the critical density.

SUPPORTING INFORMATION

Measurement and Correlation of the Thermal Conductivity of cis-1,1,1,4,4,4-hexafluoro-2-butene (R1336mzz(Z))

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Tabulated Experimental Data
List of Tables

Table S1. Nomenclature and expanded uncertainty at a coverage factor of *k*=2 (approximately 95 % confidence interval).

Variable	Description and Expanded Uncertainty
Run Point	Unique measurement identification number.
$\frac{P_e}{\mathrm{MPa}}$	Measured pressure of fluid in hot-wire cell. (expanded uncertainty of 7 kPa)
$\frac{q}{\mathrm{W \cdot m^{-1}}}$	Applied heating power per unit length of wire. (expanded relative uncertainty of 0.01 %)
$\frac{T_e}{\mathrm{K}}$	Measured temperature associated with the thermal conductivity. (expanded uncertainty of 20 mK)
$\frac{\rho_e}{\mathrm{kg \cdot m^{-3}}}$	Density of fluid in hot-wire cell calculated with the equation of state of Mondajar et al.[2] at measured T_e and P_e. The expanded uncertainty varies with state point and is largest in the critical region where small changes T_e and P_e in lead to large changes in ρ_e)
$\frac{\lambda_e}{\mathrm{W \cdot m^{-1} \cdot K^{-1}}}$	Measured thermal conductivity of fluid in hot-wire cell. The expanded relative uncertainty is 1 % for liquid and supercritical (ρ_e > 700 kg·m^{-3}), 1.5 % for vapor and supercritical ($P_e \geq 1$ MPa and ρ_e < 200 kg·m^{-3}), 3 % for supercritical (200 kg·m$^{-3} \leq \rho_e \leq$ 700 kg·m^{-3}), and 3 % vapor and supercritical (P_e < 1 MPa).
STAT	Expanded relative uncertainty of the slope of the line fit to ideal temperature rise versus the logarithm of elapsed time. (0.001 corresponds to 0.1 %)
$\frac{T_i}{\mathrm{K}}$	Measured temperature of hot-wire cell. (expanded uncertainty of 5 mK)
$\frac{\Delta T_a}{\mathrm{K}}$	Average rise in temperature during the steady-state measurement. (expanded uncertainty of 20 mK)
$\frac{t_s}{\mathrm{s}}$	Start time for averaging of steady-state temperature rise. (expanded uncertainty† of 2.5 μs)
$\frac{t_e}{\mathrm{s}}$	End time for averaging of steady-state temperature rise. (expanded uncertainty† of 2.5 μs)
Ra	Rayleigh number (Calculated - *Ra* < 17,000 require convection corrections of less than 1 %).

Table S2. Thermal conductivity of vapor R1336mzz(Z) from transient measurements with double platinum hot wires at temperatures from (302 to 343) K.

Run Point	P_e / MPa	q / W · m^{-1}	T_e / K	ρ_e / kg · m^{-3}	λ_e / W · m^{-1} · K^{-1}	STAT	T_i / K
3001	0.051	0.01906	301.928	3.391	0.01142	0.042	300.252
3003	0.051	0.01906	301.929	3.391	0.01122	0.040	300.249
3005	0.050	0.02308	302.272	3.373	0.01144	0.031	300.250
3007	0.050	0.02308	302.287	3.380	0.01140	0.034	300.252
3009	0.050	0.02747	302.659	3.375	0.01127	0.024	300.250
3011	0.051	0.02747	302.653	3.389	0.01129	0.034	300.250
3015	0.051	0.03207	303.060	3.405	0.01114	0.032	300.245
3017	0.051	0.03721	303.502	3.379	0.01134	0.021	300.246
3019	0.051	0.03721	303.508	3.372	0.01123	0.020	300.246
3021	0.052	0.01906	301.888	3.489	0.01131	0.040	300.240
3023	0.053	0.01906	301.888	3.551	0.01149	0.053	300.240
3025	0.053	0.02308	302.269	3.574	0.01149	0.033	300.237
3027	0.053	0.02308	302.241	3.539	0.01129	0.041	300.236
3029	0.052	0.02747	302.611	3.466	0.01140	0.049	300.238
3031	0.052	0.02747	302.642	3.465	0.01159	0.042	300.238
3033	0.052	0.03207	303.045	3.467	0.01140	0.022	300.238
3035	0.052	0.03207	303.043	3.453	0.01145	0.023	300.237
3037	0.052	0.03721	303.484	3.503	0.01142	0.019	300.233
3039	0.052	0.03721	303.497	3.489	0.01143	0.018	300.239
3041	0.052	0.01969	311.587	3.389	0.01225	0.078	309.960
3043	0.052	0.01969	311.598	3.389	0.01213	0.057	309.960
3045	0.052	0.02389	311.909	3.365	0.01237	0.060	309.958
3047	0.053	0.02389	311.941	3.404	0.01217	0.049	309.956
3049	0.052	0.02844	312.310	3.360	0.01212	0.035	309.949
3051	0.052	0.02844	312.298	3.340	0.01209	0.034	309.949
3053	0.052	0.03320	312.711	3.342	0.01209	0.026	309.945
3055	0.053	0.03320	312.703	3.435	0.01217	0.033	309.947
3057	0.056	0.03852	313.122	3.589	0.01232	0.026	309.944
3059	0.057	0.03852	313.139	3.655	0.01231	0.021	309.941
3061	0.080	0.01973	311.461	5.262	0.01194	0.042	309.918
3063	0.080	0.01973	311.464	5.262	0.01207	0.037	309.913
3065	0.080	0.02389	311.813	5.255	0.01190	0.031	309.909
3067	0.080	0.02389	311.815	5.269	0.01206	0.028	309.907
3071	0.080	0.02843	312.174	5.269	0.01197	0.022	309.908
3073	0.080	0.03320	312.522	5.262	0.01186	0.020	309.904
3075	0.080	0.03320	312.519	5.249	0.01185	0.018	309.901
3077	0.080	0.03852	312.960	5.226	0.01193	0.012	309.901
3079	0.079	0.03852	312.946	5.199	0.01195	0.016	309.899
3081	0.066	0.01972	311.564	4.342	0.01190	0.029	309.986
3083	0.066	0.01972	311.595	4.314	0.01183	0.025	309.981
3085	0.066	0.02388	311.930	4.275	0.01240	0.019	309.977
3087	0.065	0.02388	311.919	4.269	0.01203	0.018	309.982
3089	0.066	0.02842	312.259	4.290	0.01184	0.014	309.977
3091	0.066	0.02842	312.273	4.303	0.01202	0.017	309.975
3093	0.066	0.03318	312.648	4.298	0.01206	0.017	309.976

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
3095	0.066	0.03318	312.656	4.311	0.01195	0.014	309.972
3097	0.066	0.03850	313.072	4.311	0.01223	0.010	309.972
3099	0.066	0.03850	313.062	4.318	0.01204	0.011	309.971
3101	0.084	0.01972	311.518	5.543	0.01170	0.030	309.953
3105	0.083	0.02387	311.844	5.461	0.01185	0.022	309.954
3107	0.083	0.02387	311.842	5.447	0.01194	0.022	309.954
3109	0.083	0.02842	312.206	5.439	0.01185	0.019	309.951
3111	0.083	0.02842	312.190	5.433	0.01175	0.017	309.947
3113	0.083	0.03318	312.554	5.432	0.01186	0.013	309.947
3115	0.084	0.03318	312.549	5.487	0.01196	0.014	309.947
3117	0.084	0.03850	312.972	5.492	0.01192	0.011	309.941
3119	0.084	0.03850	312.968	5.513	0.01205	0.012	309.944
3121	0.110	0.02510	326.756	6.927	0.01291	0.020	324.960
3123	0.110	0.02510	326.769	6.933	0.01287	0.019	324.957
3125	0.110	0.02988	327.098	6.925	0.01304	0.017	324.949
3127	0.110	0.02988	327.090	6.932	0.01312	0.016	324.949
3129	0.110	0.03488	327.436	6.923	0.01318	0.012	324.943
3133	0.110	0.04047	327.827	6.946	0.01326	0.011	324.932
3135	0.113	0.04047	327.840	7.085	0.01303	0.008	324.935
3137	0.114	0.04648	328.243	7.193	0.01306	0.007	324.927
3139	0.115	0.04648	328.240	7.266	0.01317	0.008	324.921
3141	0.132	0.02988	327.097	8.427	0.01299	0.013	324.955
3143	0.132	0.02988	327.073	8.374	0.01408	0.027	324.951
3145	0.131	0.03488	327.424	8.309	0.01311	0.013	324.949
3147	0.130	0.03488	327.421	8.262	0.01296	0.013	324.942
3149	0.129	0.04047	327.800	8.204	0.01309	0.012	324.939
3151	0.129	0.04047	327.793	8.157	0.01319	0.010	324.936
3153	0.128	0.04649	328.221	8.104	0.01324	0.007	324.932
3155	0.127	0.04649	328.214	8.064	0.01371	0.011	324.927
3157	0.127	0.05289	328.662	8.011	0.01325	0.007	324.924
3159	0.126	0.05289	328.662	7.964	0.01320	0.006	324.925
3161	0.058	0.02987	327.240	3.571	0.01327	0.014	324.973
3163	0.058	0.02987	327.271	3.558	0.01294	0.013	324.966
3165	0.058	0.03488	327.664	3.541	0.01326	0.014	324.965
3167	0.057	0.03488	327.660	3.516	0.01326	0.014	324.960
3169	0.057	0.04047	328.070	3.473	0.01334	0.012	324.959
3171	0.056	0.04047	328.067	3.448	0.01335	0.012	324.949
3175	0.055	0.04648	328.513	3.343	0.01301	0.011	324.947
3177	0.053	0.05289	328.958	3.226	0.01333	0.011	324.940
3179	0.051	0.05289	328.961	3.113	0.01328	0.010	324.938
3181	0.261	0.03126	341.843	16.609	0.01436	0.024	339.981
3183	0.260	0.03126	341.829	16.497	0.01450	0.025	339.972
3185	0.258	0.03650	342.146	16.376	0.01418	0.021	339.964
3187	0.256	0.03650	342.137	16.243	0.01412	0.023	339.953
3189	0.254	0.04234	342.481	16.073	0.01429	0.017	339.946
3191	0.252	0.04234	342.483	15.919	0.01439	0.015	339.938
3193	0.251	0.04864	342.859	15.797	0.01423	0.015	339.933

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
3195	0.252	0.04864	342.843	15.875	0.01433	0.014	339.924
3197	0.252	0.05534	343.246	15.828	0.01436	0.013	339.917
3199	0.251	0.05534	343.233	15.787	0.01430	0.012	339.909
3201	0.218	0.03127	341.773	13.613	0.01467	0.024	339.856
3203	0.216	0.03126	341.774	13.497	0.01441	0.020	339.847
3205	0.215	0.03650	342.084	13.366	0.01434	0.020	339.838
3207	0.213	0.03650	342.089	13.244	0.01448	0.018	339.834
3209	0.212	0.04235	342.437	13.138	0.01435	0.016	339.825
3211	0.211	0.04235	342.447	13.077	0.01433	0.017	339.816
3213	0.210	0.04864	342.814	13.025	0.01402	0.015	339.810
3215	0.209	0.04864	342.806	12.979	0.01407	0.015	339.803
3217	0.209	0.05534	343.216	12.911	0.01423	0.012	339.794
3219	0.208	0.05534	343.209	12.858	0.01433	0.011	339.788
3221	0.173	0.03126	341.815	10.585	0.01435	0.026	339.832
3223	0.172	0.03126	341.807	10.520	0.01462	0.024	339.823
3225	0.171	0.03650	342.133	10.455	0.01451	0.019	339.817
3227	0.170	0.03650	342.131	10.384	0.01428	0.019	339.812
3229	0.169	0.04234	342.472	10.306	0.01451	0.020	339.802
3231	0.168	0.04234	342.492	10.266	0.01414	0.021	339.796
3233	0.167	0.04863	342.880	10.161	0.01439	0.015	339.791
3235	0.166	0.04863	342.874	10.116	0.01417	0.013	339.782
3237	0.165	0.05533	343.301	10.029	0.01430	0.012	339.773
3239	0.164	0.05533	343.299	9.984	0.01431	0.012	339.770
3241	0.122	0.03126	341.837	7.316	0.01412	0.022	339.783
3243	0.121	0.03126	341.830	7.260	0.01419	0.020	339.778
3245	0.120	0.03649	342.172	7.226	0.01447	0.017	339.774
3247	0.120	0.03649	342.172	7.201	0.01438	0.017	339.765
3251	0.118	0.04234	342.534	7.092	0.01432	0.015	339.754
3253	0.118	0.04863	342.953	7.039	0.01440	0.011	339.743
3255	0.116	0.04863	342.956	6.926	0.01425	0.012	339.737
3257	0.116	0.05532	343.367	6.929	0.01461	0.012	339.734
3259	0.118	0.05532	343.366	7.060	0.01434	0.010	339.726
3261	0.076	0.03125	342.064	4.466	0.01444	0.023	339.920
3263	0.075	0.03125	342.096	4.423	0.01444	0.019	339.910
3265	0.074	0.03648	342.419	4.382	0.01452	0.016	339.901
3267	0.074	0.03648	342.416	4.358	0.01456	0.017	339.895
3269	0.074	0.04232	342.801	4.334	0.01466	0.013	339.888
3271	0.073	0.04232	342.761	4.311	0.01465	0.013	339.882
3273	0.073	0.04861	343.181	4.293	0.01458	0.014	339.872
3275	0.073	0.04860	343.186	4.269	0.01465	0.012	339.867
3277	0.072	0.05530	343.627	4.251	0.01454	0.008	339.863
3279	0.072	0.05530	343.632	4.238	0.01453	0.013	339.854

Table S3. Thermal conductivity of liquid RE347mcc from transient measurements with double platinum hot wires at temperatures from (192 to 343) K.

Run Point	P_e / MPa	q / W · m^{-1}	T_e / K	ρ_e / kg · m^{-3}	λ_e / W · m^{-1} · K^{-1}	STAT	T_i / K
1002	64.898	0.22711	311.313	1479.911	0.09897	0.011	310.007
1003	64.918	0.28391	311.665	1479.371	0.09850	0.009	310.010
1004	64.905	0.28391	311.646	1479.382	0.09911	0.009	310.008
1005	64.884	0.34707	312.016	1478.750	0.09790	0.007	310.007
1006	64.876	0.34707	312.016	1478.738	0.09845	0.007	310.008
1007	64.878	0.41633	312.450	1478.038	0.09954	0.004	310.006
1008	64.866	0.41634	312.439	1478.036	0.09934	0.004	310.005
1009	64.851	0.49210	312.874	1477.310	0.09954	0.003	310.000
1010	64.851	0.49210	312.880	1477.299	0.09928	0.003	310.001
1011	57.726	0.22712	311.325	1468.560	0.09654	0.007	309.960
1012	57.736	0.22712	311.337	1468.557	0.09609	0.006	309.958
1013	57.760	0.28392	311.663	1468.050	0.09746	0.005	309.961
1014	57.764	0.28392	311.671	1468.044	0.09694	0.004	309.957
1015	57.766	0.34706	312.041	1467.429	0.09703	0.003	309.958
1016	57.735	0.34706	312.026	1467.403	0.09703	0.003	309.953
1017	57.705	0.41635	312.438	1466.665	0.09710	0.003	309.956
1018	57.694	0.41636	312.427	1466.666	0.09745	0.003	309.956
1019	57.712	0.49211	312.879	1465.941	0.09784	0.002	309.953
1020	57.698	0.49213	312.870	1465.931	0.09800	0.003	309.953
1021	46.004	0.22716	311.321	1448.371	0.09242	0.008	309.953
1022	46.001	0.22716	311.305	1448.394	0.09312	0.007	309.953
1023	45.997	0.28398	311.674	1447.733	0.09298	0.006	309.954
1024	45.995	0.28398	311.677	1447.724	0.09310	0.005	309.954
1025	45.992	0.34711	312.057	1447.045	0.09412	0.005	309.948
1026	45.987	0.34711	312.065	1447.022	0.09328	0.004	309.954
1027	45.988	0.41638	312.483	1446.285	0.09344	0.003	309.951
1028	45.987	0.41639	312.478	1446.290	0.09340	0.003	309.949
1029	45.985	0.49213	312.944	1445.462	0.09391	0.002	309.948
1030	45.983	0.49214	312.948	1445.453	0.09392	0.003	309.953
1031	38.431	0.22713	311.303	1434.003	0.09204	0.007	309.899
1033	38.427	0.28395	311.663	1433.327	0.09130	0.004	309.898
1034	38.424	0.28394	311.684	1433.283	0.09077	0.004	309.902
1035	38.440	0.34710	312.064	1432.612	0.09116	0.004	309.901
1036	38.428	0.34709	312.064	1432.588	0.09063	0.006	309.895
1037	38.419	0.41637	312.507	1431.750	0.09118	0.002	309.899
1038	38.432	0.41637	312.489	1431.809	0.09112	0.003	309.896
1039	38.419	0.49212	312.970	1430.894	0.09124	0.002	309.896
1040	38.417	0.49212	312.965	1430.900	0.09154	0.002	309.896
1041	30.516	0.22711	311.384	1417.353	0.08811	0.008	309.947
1042	30.513	0.22711	311.377	1417.362	0.08865	0.007	309.945
1043	30.516	0.28391	311.747	1416.645	0.08825	0.005	309.942
1045	30.513	0.34705	312.151	1415.852	0.08795	0.004	309.938
1046	30.512	0.34705	312.154	1415.843	0.08837	0.004	309.940
1047	30.513	0.41631	312.604	1414.969	0.08812	0.003	309.941
1048	30.510	0.41631	312.594	1414.981	0.08792	0.003	309.935
1049	30.512	0.49204	313.089	1414.021	0.08906	0.002	309.937

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
1050	30.507	0.49204	313.088	1414.013	0.08881	0.002	309.939
1051	22.988	0.22710	311.401	1399.906	0.08447	0.007	309.917
1052	22.990	0.22710	311.397	1399.921	0.08536	0.007	309.912
1053	22.990	0.28390	311.783	1399.121	0.08496	0.005	309.917
1054	22.988	0.28390	311.774	1399.136	0.08540	0.004	309.911
1055	22.986	0.34704	312.198	1398.255	0.08530	0.004	309.913
1056	22.986	0.34704	312.196	1398.260	0.08626	0.004	309.915
1057	22.989	0.41629	312.652	1397.325	0.08559	0.003	309.916
1058	22.987	0.41629	312.651	1397.321	0.08600	0.003	309.914
1059	22.987	0.49201	313.147	1396.295	0.08668	0.003	309.915
1060	22.985	0.49202	313.150	1396.285	0.08575	0.003	309.911
1061	16.236	0.22706	311.462	1382.308	0.08208	0.008	309.925
1062	16.235	0.22706	311.456	1382.319	0.08245	0.008	309.927
1063	16.235	0.28385	311.842	1381.471	0.08193	0.005	309.924
1064	16.235	0.28384	311.841	1381.470	0.08259	0.005	309.922
1065	16.235	0.34697	312.264	1380.543	0.08334	0.004	309.921
1066	16.233	0.34697	312.261	1380.542	0.08275	0.003	309.922
1067	16.232	0.41620	312.738	1379.491	0.08326	0.003	309.922
1068	16.230	0.41620	312.730	1379.501	0.08300	0.003	309.919
1069	16.232	0.49191	313.236	1378.395	0.08387	0.003	309.918
1070	16.229	0.49191	313.240	1378.380	0.08347	0.002	309.916
1071	10.167	0.22705	311.458	1364.651	0.07959	0.005	309.868
1072	10.168	0.22705	311.457	1364.653	0.08037	0.005	309.865
1073	10.165	0.28384	311.849	1363.724	0.08003	0.005	309.868
1074	10.166	0.28384	311.852	1363.720	0.08000	0.004	309.867
1075	10.166	0.34696	312.290	1362.690	0.08060	0.004	309.866
1076	10.164	0.34695	312.282	1362.703	0.08031	0.003	309.866
1077	10.163	0.41619	312.776	1361.539	0.08053	0.002	309.863
1078	10.162	0.41619	312.764	1361.563	0.08043	0.002	309.861
1079	10.158	0.49189	313.293	1360.307	0.08183	0.002	309.868
1080	10.160	0.49189	313.285	1360.331	0.08124	0.002	309.864
1081	4.841	0.22702	311.518	1346.945	0.07789	0.006	309.905
1082	4.839	0.22702	311.523	1346.929	0.07841	0.006	309.909
1083	4.836	0.28379	311.929	1345.890	0.07752	0.004	309.905
1084	4.836	0.28379	311.929	1345.889	0.07731	0.004	309.910
1085	4.836	0.34690	312.375	1344.766	0.07793	0.004	309.906
1086	4.835	0.34691	312.383	1344.741	0.07896	0.004	309.907
1087	4.837	0.41612	312.887	1343.476	0.07797	0.002	309.904
1088	4.835	0.41612	312.887	1343.467	0.07797	0.002	309.905
1089	4.833	0.49180	313.406	1342.145	0.07894	0.002	309.901
1090	4.831	0.49181	313.406	1342.141	0.07946	0.003	309.902
2003	58.816	0.31239	341.784	1420.232	0.09403	0.009	339.918
2005	58.822	0.38182	342.204	1419.561	0.09401	0.010	339.912
2006	58.824	0.38181	342.198	1419.572	0.09461	0.009	339.909
2007	58.817	0.45794	342.655	1418.819	0.09491	0.007	339.903
2008	58.782	0.45794	342.671	1418.726	0.09494	0.007	339.904
2009	58.768	0.54116	343.178	1417.877	0.09549	0.005	339.903
2011	58.579	0.24981	341.325	1420.539	0.09404	0.009	339.779

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
2012	58.581	0.24982	341.289	1420.602	0.09366	0.011	339.780
2013	58.578	0.31226	341.677	1419.964	0.09430	0.009	339.775
2015	58.579	0.38166	342.087	1419.297	0.09458	0.007	339.777
2016	58.575	0.38166	342.093	1419.283	0.09455	0.007	339.775
2017	58.571	0.45776	342.559	1418.516	0.09509	0.005	339.777
2018	58.573	0.45777	342.533	1418.563	0.09514	0.006	339.775
2019	58.571	0.54094	343.059	1417.703	0.09506	0.004	339.776
2020	58.569	0.54095	343.049	1417.714	0.09533	0.004	339.773
2021	46.212	0.24977	341.364	1395.963	0.08939	0.008	339.769
2022	46.212	0.24976	341.381	1395.935	0.08997	0.010	339.775
2023	46.208	0.31219	341.764	1395.258	0.08995	0.006	339.771
2024	46.209	0.31219	341.772	1395.246	0.08982	0.006	339.775
2025	46.216	0.38156	342.216	1394.486	0.09026	0.004	339.779
2026	46.213	0.38156	342.216	1394.481	0.08973	0.005	339.777
2027	46.216	0.45761	342.702	1393.639	0.09100	0.003	339.780
2028	46.215	0.45761	342.707	1393.629	0.09072	0.003	339.784
2029	46.214	0.54078	343.212	1392.746	0.09200	0.003	339.780
2030	46.220	0.54075	343.219	1392.748	0.09177	0.002	339.787
2031	37.015	0.24966	341.479	1375.010	0.08608	0.006	339.791
2032	37.015	0.24966	341.473	1375.019	0.08600	0.008	339.795
2033	37.020	0.31206	341.882	1374.273	0.08729	0.005	339.794
2034	37.020	0.31205	341.886	1374.266	0.08647	0.005	339.803
2035	37.022	0.38140	342.337	1373.434	0.08684	0.004	339.805
2036	37.025	0.38140	342.329	1373.455	0.08755	0.005	339.807
2037	37.021	0.45743	342.834	1372.511	0.08776	0.003	339.809
2038	37.017	0.45743	342.830	1372.508	0.08831	0.004	339.811
2039	37.018	0.54054	343.377	1371.495	0.08845	0.003	339.818
2040	37.022	0.54054	343.364	1371.530	0.08887	0.003	339.815
2041	28.555	0.24960	341.576	1353.154	0.08292	0.008	339.846
2042	28.555	0.24960	341.581	1353.145	0.08303	0.008	339.856
2043	28.552	0.31198	342.005	1352.293	0.08241	0.005	339.856
2044	28.550	0.31198	342.003	1352.293	0.08347	0.005	339.860
2045	28.557	0.38130	342.485	1351.353	0.08374	0.003	339.870
2046	28.547	0.38131	342.479	1351.340	0.08446	0.004	339.871
2047	28.549	0.45731	342.999	1350.310	0.08453	0.003	339.877
2048	28.559	0.45731	343.004	1350.327	0.08297	0.003	339.882
2049	28.547	0.54039	343.547	1349.214	0.08566	0.002	339.884
2050	28.556	0.54039	343.559	1349.217	0.08557	0.003	339.888
2051	28.590	0.19425	341.237	1353.924	0.08326	0.009	339.893
2052	28.590	0.19425	341.235	1353.928	0.08264	0.009	339.890
2053	28.591	0.24965	341.609	1353.188	0.08264	0.007	339.886
2054	28.588	0.24964	341.600	1353.198	0.08258	0.006	339.882
2055	28.571	0.31204	342.008	1352.341	0.08348	0.005	339.879
2056	28.583	0.31204	342.009	1352.370	0.08368	0.005	339.881
2057	28.580	0.38137	342.464	1351.458	0.08360	0.004	339.873
2058	28.574	0.38137	342.476	1351.418	0.08369	0.004	339.872
2059	28.581	0.45740	342.966	1350.463	0.08446	0.003	339.869
2060	28.571	0.45741	342.942	1350.483	0.08461	0.004	339.864

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2061	21.149	0.19430	341.175	1332.289	0.08009	0.008	339.773
2062	21.155	0.19430	341.185	1332.285	0.07911	0.008	339.771
2063	21.152	0.24968	341.572	1331.447	0.07934	0.004	339.764
2064	21.149	0.24967	341.576	1331.431	0.08027	0.005	339.765
2065	21.147	0.31207	342.017	1330.482	0.08043	0.003	339.762
2066	21.156	0.31206	342.010	1330.522	0.08058	0.003	339.764
2067	21.139	0.38141	342.479	1329.466	0.08054	0.003	339.755
2068	21.147	0.38142	342.446	1329.562	0.08025	0.003	339.757
2069	21.142	0.45745	342.955	1328.455	0.08157	0.003	339.751
2070	21.143	0.45744	342.972	1328.421	0.08093	0.003	339.751
2071	14.634	0.19436	341.073	1310.534	0.07628	0.009	339.629
2072	14.625	0.19435	341.088	1310.466	0.07805	0.009	339.631
2073	14.630	0.24975	341.474	1309.588	0.07686	0.006	339.625
2074	14.625	0.24975	341.490	1309.533	0.07733	0.006	339.626
2075	14.622	0.31216	341.915	1308.535	0.07734	0.004	339.617
2076	14.614	0.31216	341.921	1308.492	0.07741	0.004	339.615
2077	14.617	0.38151	342.431	1307.318	0.07738	0.003	339.619
2078	14.613	0.38152	342.404	1307.367	0.07800	0.003	339.610
2079	14.622	0.45756	342.946	1306.143	0.07826	0.003	339.612
2080	14.612	0.45757	342.924	1306.157	0.07844	0.003	339.611
2082	9.078	0.19437	341.003	1288.903	0.07384	0.009	339.548
2083	9.079	0.24977	341.405	1287.886	0.07480	0.006	339.539
2084	9.076	0.24977	341.420	1287.836	0.07430	0.006	339.545
2085	9.074	0.31217	341.883	1286.660	0.07506	0.005	339.540
2086	9.077	0.31218	341.884	1286.671	0.07488	0.004	339.539
2087	9.070	0.38152	342.397	1285.338	0.07512	0.003	339.536
2088	9.077	0.38153	342.387	1285.395	0.07517	0.004	339.532
2089	9.072	0.45756	342.942	1283.965	0.07543	0.002	339.527
2090	9.077	0.45756	342.934	1284.006	0.07582	0.003	339.529
2091	4.412	0.19437	340.999	1267.448	0.07157	0.008	339.483
2092	4.413	0.19437	340.993	1267.471	0.07155	0.007	339.475
2093	4.413	0.24976	341.397	1266.347	0.07202	0.006	339.477
2094	4.407	0.24976	341.401	1266.308	0.07076	0.007	339.475
2095	4.408	0.31217	341.874	1265.003	0.07301	0.005	339.468
2096	4.401	0.31217	341.872	1264.971	0.07230	0.005	339.467
2097	4.399	0.38151	342.398	1263.498	0.07266	0.004	339.465
2098	4.399	0.38151	342.387	1263.527	0.07315	0.004	339.458
2099	4.399	0.45753	342.967	1261.911	0.07310	0.003	339.462
2100	4.396	0.45753	342.953	1261.938	0.07307	0.003	339.456
2101	0.479	0.19435	341.033	1245.933	0.06877	0.009	339.481
2102	0.480	0.19434	341.051	1245.881	0.06856	0.008	339.478
2103	0.480	0.24972	341.500	1244.504	0.06952	0.004	339.472
2104	0.474	0.24972	341.497	1244.478	0.06952	0.004	339.474
2105	0.473	0.31211	341.986	1242.968	0.07002	0.003	339.466
2106	0.476	0.31211	341.977	1243.011	0.07013	0.003	339.463
2107	0.479	0.38144	342.515	1241.372	0.07088	0.003	339.465
2108	0.472	0.38145	342.469	1241.471	0.07051	0.004	339.459
2109	0.475	0.45745	343.065	1239.641	0.07112	0.002	339.457

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2110	0.473	0.45746	343.058	1239.653	0.07127	0.003	339.457
4001	67.383	0.28958	191.579	1686.825	0.11742	0.002	190.098
4002	67.322	0.28957	191.585	1686.761	0.11810	0.001	190.099
4003	67.042	0.35002	191.888	1685.974	0.11714	0.001	190.099
4004	67.232	0.35001	191.885	1686.143	0.11746	0.001	190.098
4005	67.034	0.41709	192.229	1685.352	0.11730	0.001	190.098
4006	66.762	0.41709	192.231	1685.113	0.11705	0.001	190.098
4007	66.969	0.48996	192.606	1684.618	0.11696	0.001	190.098
4008	66.660	0.48996	192.605	1684.352	0.11679	0.001	190.097
4009	66.543	0.56886	193.007	1683.526	0.11670	0.001	190.098
4010	66.706	0.56887	193.007	1683.667	0.11675	0.001	190.098
4011	66.331	0.28953	191.576	1685.922	0.11679	0.002	190.098
4012	66.324	0.28954	191.582	1685.906	0.11790	0.002	190.097
4013	66.218	0.34997	191.889	1685.260	0.11735	0.001	190.097
4014	66.177	0.34997	191.885	1685.232	0.11705	0.002	190.096
4015	66.420	0.41705	192.230	1684.820	0.11665	0.002	190.097
4016	66.147	0.41704	192.235	1684.573	0.11680	0.001	190.097
4017	66.415	0.48992	192.606	1684.138	0.11668	0.001	190.097
4018	66.369	0.48991	192.612	1684.087	0.11639	0.001	190.097
4019	66.241	0.56880	193.012	1683.254	0.11578	0.001	190.098
4020	66.285	0.56880	193.013	1683.290	0.11580	0.001	190.097
4021	58.081	0.28949	191.586	1678.642	0.11690	0.002	190.096
4022	58.352	0.28948	191.580	1678.897	0.11669	0.002	190.097
4023	58.043	0.34991	191.899	1678.031	0.11661	0.002	190.096
4024	57.874	0.34991	191.890	1677.896	0.11606	0.002	190.095
4025	58.048	0.41698	192.232	1677.422	0.11632	0.002	190.096
4026	57.941	0.41697	192.232	1677.327	0.11565	0.001	190.096
4027	58.150	0.48983	192.609	1676.821	0.11581	0.001	190.097
4028	58.040	0.48983	192.607	1676.725	0.11560	0.001	190.096
4029	58.091	0.56870	193.019	1676.013	0.11535	0.002	190.096
4030	57.951	0.56870	193.013	1675.897	0.11520	0.001	190.095
4031	50.379	0.28938	191.580	1671.616	0.11649	0.002	190.093
4032	50.370	0.28938	191.580	1671.610	0.11607	0.002	190.093
4034	50.386	0.34977	191.890	1671.040	0.11597	0.002	190.093
4035	50.285	0.41682	192.236	1670.297	0.11537	0.002	190.093
4036	50.270	0.41682	192.232	1670.290	0.11542	0.002	190.093
4037	50.422	0.48964	192.608	1669.726	0.11511	0.001	190.093
4038	50.267	0.48964	192.611	1669.575	0.11518	0.001	190.094
4039	50.381	0.56849	193.014	1668.925	0.11484	0.001	190.093
4040	50.419	0.56850	193.021	1668.947	0.11477	0.001	190.093
4041	44.181	0.28922	191.582	1665.754	0.11480	0.002	190.092
4042	44.152	0.28921	191.575	1665.739	0.11448	0.002	190.092
4043	44.370	0.34959	191.890	1665.347	0.11440	0.001	190.093
4044	44.353	0.34958	191.892	1665.327	0.11448	0.001	190.093
4045	44.300	0.41658	192.233	1664.623	0.11427	0.001	190.093
4046	44.416	0.41658	192.240	1664.722	0.11402	0.001	190.094
4047	44.311	0.48938	192.621	1663.893	0.11381	0.001	190.093
4048	44.327	0.48937	192.618	1663.915	0.11400	0.001	190.093

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
4049	44.301	0.56818	193.025	1663.113	0.11398	0.001	190.092
4050	44.465	0.56816	193.020	1663.281	0.11368	0.001	190.092
4051	36.529	0.28919	191.578	1658.263	0.11385	0.001	190.093
4052	36.373	0.28919	191.589	1658.086	0.11402	0.001	190.093
4053	36.319	0.34956	191.900	1657.422	0.11404	0.001	190.094
4054	36.522	0.34955	191.895	1657.636	0.11401	0.001	190.093
4055	36.397	0.41655	192.243	1656.830	0.11371	0.001	190.094
4056	36.364	0.41654	192.238	1656.806	0.11357	0.001	190.094
4057	36.414	0.48932	192.609	1656.130	0.11351	0.001	190.094
4058	36.530	0.48931	192.613	1656.241	0.11368	0.001	190.093
4059	36.568	0.56811	193.018	1655.487	0.11350	0.001	190.093
4060	36.380	0.56811	193.016	1655.300	0.11362	0.001	190.094
4061	34.558	0.28901	191.626	1656.186	0.11348	0.002	190.157
4062	34.563	0.28901	191.629	1656.185	0.11414	0.002	190.157
4063	34.571	0.34933	191.939	1655.583	0.11408	0.002	190.157
4064	34.568	0.34932	191.939	1655.581	0.11425	0.002	190.158
4065	34.567	0.41627	192.275	1654.917	0.11388	0.001	190.158
4066	34.574	0.41627	192.277	1654.922	0.11426	0.001	190.157
4067	34.575	0.48901	192.656	1654.178	0.11429	0.001	190.158
4068	34.575	0.48901	192.658	1654.174	0.11436	0.001	190.157
4069	34.581	0.56776	193.064	1653.380	0.11425	0.001	190.158
4070	34.576	0.56774	193.057	1653.389	0.11422	0.001	190.157
4071	29.433	0.28896	191.655	1650.867	0.11366	0.003	190.178
4072	29.445	0.28893	191.657	1650.876	0.11288	0.002	190.178
4073	29.445	0.34922	191.976	1650.237	0.11326	0.002	190.178
4074	29.452	0.34921	191.968	1650.262	0.11342	0.002	190.179
4075	29.440	0.41617	192.324	1649.537	0.11327	0.001	190.178
4076	29.467	0.41615	192.317	1649.580	0.11336	0.002	190.179
4077	29.450	0.48888	192.701	1648.794	0.11295	0.001	190.178
4078	29.452	0.48889	192.698	1648.802	0.11233	0.002	190.179
4079	29.440	0.56762	193.108	1647.969	0.11301	0.001	190.179
4080	29.444	0.56762	193.108	1647.973	0.11269	0.001	190.179
4081	23.836	0.28890	191.656	1644.936	0.11235	0.003	190.158
4082	23.841	0.28890	191.646	1644.962	0.11196	0.002	190.158
4083	23.820	0.34926	191.970	1644.279	0.11128	0.002	190.157
4084	23.788	0.34928	191.971	1644.243	0.11154	0.002	190.158
4085	23.773	0.41626	192.325	1643.506	0.11169	0.001	190.158
4086	23.764	0.41627	192.329	1643.488	0.11168	0.001	190.158
4087	23.743	0.48902	192.705	1642.697	0.11223	0.001	190.158
4088	23.740	0.48902	192.705	1642.696	0.11173	0.001	190.157
4089	23.732	0.56780	193.125	1641.830	0.11200	0.001	190.158
4090	23.735	0.56781	193.124	1641.837	0.11189	0.001	190.157
4091	17.476	0.28905	191.638	1637.985	0.11088	0.002	190.133
4092	17.497	0.28905	191.644	1637.993	0.11068	0.002	190.133
4093	17.482	0.34939	191.971	1637.297	0.10971	0.002	190.133
4094	17.483	0.34939	191.959	1637.324	0.10990	0.002	190.133
4095	17.498	0.41638	192.323	1636.582	0.11027	0.001	190.134
4096	17.482	0.41637	192.320	1636.568	0.11009	0.001	190.133

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
4097	17.481	0.48914	192.709	1635.757	0.11006	0.001	190.133
4098	17.513	0.48914	192.713	1635.786	0.11017	0.001	190.134
4099	17.480	0.56793	193.127	1634.884	0.11010	0.001	190.133
4100	17.488	0.56792	193.122	1634.905	0.11030	0.001	190.132
4101	17.855	0.28834	191.647	1638.389	0.10979	0.004	190.167
4102	17.837	0.28834	191.644	1638.376	0.10996	0.004	190.166
4103	17.844	0.34855	191.980	1637.683	0.11043	0.003	190.167
4104	17.857	0.34854	191.968	1637.722	0.11001	0.003	190.168
4105	17.826	0.41535	192.325	1636.945	0.11083	0.002	190.167
4106	17.787	0.41536	192.332	1636.888	0.11043	0.002	190.168
4107	17.784	0.48796	192.727	1636.061	0.11053	0.002	190.168
4108	17.822	0.48795	192.721	1636.117	0.11053	0.001	190.168
4109	17.835	0.56655	193.148	1635.242	0.11033	0.001	190.168
4110	17.843	0.56654	193.141	1635.266	0.11074	0.001	190.168
4111	11.533	0.28837	191.663	1631.131	0.10904	0.003	190.144
4112	11.529	0.28838	191.664	1631.126	0.10937	0.003	190.144
4113	11.525	0.34859	191.985	1630.437	0.10910	0.002	190.144
4114	11.522	0.34859	191.990	1630.423	0.10909	0.002	190.144
4115	11.514	0.41542	192.337	1629.674	0.10855	0.002	190.144
4116	11.508	0.41542	192.340	1629.659	0.10844	0.002	190.145
4117	11.504	0.48803	192.729	1628.825	0.10872	0.002	190.145
4118	11.516	0.48803	192.724	1628.850	0.10851	0.001	190.145
4119	11.497	0.56666	193.163	1627.891	0.10865	0.001	190.146
4120	11.489	0.56664	193.155	1627.899	0.10890	0.001	190.145
4121	5.651	0.28841	191.655	1624.138	0.10745	0.003	190.123
4122	5.654	0.28841	191.657	1624.138	0.10811	0.003	190.123
4123	5.646	0.34864	191.992	1623.395	0.10816	0.002	190.123
4124	5.651	0.34863	191.986	1623.415	0.10842	0.002	190.123
4125	5.643	0.41547	192.361	1622.587	0.10778	0.001	190.123
4126	5.639	0.41547	192.352	1622.601	0.10753	0.001	190.123
4127	5.634	0.48809	192.748	1621.731	0.10735	0.001	190.123
4128	5.633	0.48809	192.749	1621.728	0.10681	0.002	190.123
4129	5.628	0.56672	193.177	1620.785	0.10721	0.001	190.124
4130	5.668	0.56672	193.178	1620.833	0.10779	0.001	190.124
4131	0.123	0.28843	191.656	1617.264	0.10675	0.003	190.102
4132	0.122	0.28843	191.650	1617.277	0.10687	0.003	190.102
4133	0.170	0.34865	191.981	1616.596	0.10661	0.002	190.102
4134	0.134	0.34864	191.977	1616.559	0.10634	0.002	190.102
4135	0.136	0.41549	192.347	1615.734	0.10609	0.002	190.103
4136	0.178	0.41548	192.344	1615.795	0.10634	0.002	190.103
4137	0.176	0.48810	192.744	1614.896	0.10629	0.002	190.104
4138	0.149	0.48810	192.745	1614.861	0.10620	0.002	190.103
4139	0.135	0.56675	193.186	1613.855	0.10604	0.001	190.104
4140	0.161	0.56675	193.180	1613.902	0.10632	0.001	190.103
5001	37.476	0.34109	222.088	1600.252	0.10900	0.002	220.288
5002	37.467	0.34108	222.083	1600.250	0.10883	0.002	220.289
5003	37.462	0.41220	222.471	1599.501	0.10788	0.002	220.288
5004	37.480	0.41219	222.469	1599.526	0.10767	0.002	220.287

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
5006	37.458	0.49108	222.901	1598.671	0.10725	0.001	220.287
5007	37.459	0.57674	223.360	1597.794	0.10743	0.001	220.286
5008	37.446	0.57673	223.363	1597.773	0.10745	0.001	220.287
5009	37.442	0.66943	223.878	1596.783	0.10810	0.001	220.286
5010	37.440	0.66944	223.870	1596.794	0.10763	0.001	220.286
5011	67.488	0.34079	222.000	1633.051	0.11484	0.002	220.267
5012	67.486	0.34079	222.003	1633.045	0.11526	0.002	220.267
5013	67.480	0.41182	222.367	1632.404	0.11437	0.001	220.267
5014	67.477	0.41182	222.367	1632.401	0.11399	0.001	220.266
5015	67.473	0.49062	222.771	1631.695	0.11386	0.001	220.267
5016	67.478	0.49062	222.768	1631.704	0.11433	0.001	220.267
5017	67.473	0.57618	223.206	1630.937	0.11448	0.001	220.265
5018	67.468	0.57618	223.212	1630.921	0.11449	0.001	220.266
5019	67.489	0.66877	223.687	1630.116	0.11434	0.001	220.266
5020	67.470	0.66877	223.685	1630.100	0.11410	0.001	220.266
5021	59.999	0.34071	221.997	1625.437	0.11267	0.001	220.235
5022	60.001	0.34071	221.994	1625.444	0.11324	0.001	220.236
5023	60.001	0.41172	222.362	1624.788	0.11298	0.001	220.233
5024	60.003	0.41173	222.356	1624.801	0.11306	0.001	220.234
5025	60.007	0.49052	222.769	1624.071	0.11339	0.001	220.234
5026	60.009	0.49051	222.768	1624.075	0.11307	0.001	220.235
5027	60.011	0.57607	223.211	1623.289	0.11302	0.002	220.234
5028	60.016	0.57606	223.217	1623.284	0.11304	0.001	220.235
5029	60.018	0.66861	223.693	1622.439	0.11289	0.001	220.233
5030	60.018	0.66862	223.694	1622.437	0.11302	0.001	220.233
5031	50.893	0.34072	221.976	1615.772	0.11039	0.002	220.196
5032	50.891	0.34072	221.972	1615.776	0.11070	0.002	220.197
5033	50.892	0.41174	222.348	1615.090	0.11096	0.001	220.194
5034	50.894	0.41174	222.353	1615.083	0.11141	0.001	220.196
5035	50.897	0.49053	222.762	1614.337	0.11092	0.001	220.197
5036	50.896	0.49053	222.759	1614.342	0.11106	0.001	220.196
5037	50.894	0.57609	223.216	1613.504	0.11102	0.001	220.196
5038	50.892	0.57609	223.218	1613.498	0.11091	0.001	220.197
5039	50.896	0.66867	223.705	1612.613	0.11123	0.001	220.197
5040	50.896	0.66866	223.705	1612.613	0.11131	0.001	220.198
5041	42.368	0.34073	221.981	1606.189	0.10784	0.002	220.163
5042	42.368	0.34072	221.976	1606.199	0.10818	0.002	220.163
5043	42.370	0.41175	222.351	1605.495	0.10853	0.002	220.163
5044	42.371	0.41174	222.352	1605.493	0.10895	0.001	220.163
5045	42.370	0.49055	222.777	1604.692	0.10914	0.001	220.164
5046	42.369	0.49054	222.777	1604.692	0.10903	0.001	220.163
5047	42.366	0.57612	223.234	1603.827	0.10911	0.001	220.163
5048	42.367	0.57610	223.234	1603.829	0.10891	0.001	220.163
5049	42.367	0.66870	223.737	1602.884	0.10918	0.001	220.164
5050	42.368	0.66868	223.734	1602.890	0.10917	0.001	220.163
5051	34.319	0.27569	221.620	1597.355	0.10759	0.002	220.133
5052	34.321	0.27569	221.626	1597.346	0.10872	0.002	220.133
5053	34.319	0.34071	221.971	1596.675	0.10795	0.002	220.132

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5054	34.321	0.34071	221.975	1596.670	0.10846	0.001	220.133
5055	34.318	0.41172	222.358	1595.923	0.10774	0.001	220.134
5056	34.320	0.41173	222.365	1595.911	0.10709	0.001	220.135
5059	34.322	0.57611	223.266	1594.168	0.10741	0.001	220.135
5060	34.323	0.57610	223.261	1594.178	0.10677	0.001	220.135
5061	26.763	0.27569	221.631	1587.906	0.10497	0.002	220.116
5062	26.767	0.27569	221.635	1587.903	0.10537	0.002	220.116
5063	26.773	0.34071	221.990	1587.201	0.10540	0.002	220.117
5064	26.777	0.34072	221.997	1587.193	0.10546	0.001	220.117
5065	26.781	0.41174	222.389	1586.415	0.10605	0.001	220.118
5066	26.787	0.41174	222.387	1586.427	0.10585	0.001	220.119
5067	26.791	0.49055	222.818	1585.570	0.10616	0.001	220.119
5068	26.793	0.49055	222.824	1585.560	0.10608	0.001	220.119
5069	26.793	0.57612	223.304	1584.603	0.10536	0.001	220.121
5070	26.794	0.57612	223.290	1584.632	0.10478	0.001	220.121
5071	19.607	0.27569	221.652	1578.425	0.10323	0.002	220.103
5072	19.609	0.27569	221.651	1578.429	0.10319	0.002	220.105
5073	19.609	0.34071	222.013	1577.683	0.10370	0.001	220.104
5075	19.612	0.41173	222.412	1576.866	0.10350	0.001	220.108
5076	19.616	0.41174	222.409	1576.875	0.10341	0.001	220.109
5077	19.615	0.49054	222.856	1575.955	0.10378	0.001	220.110
5078	19.646	0.49054	222.855	1575.999	0.10354	0.001	220.111
5079	19.665	0.57610	223.336	1575.033	0.10399	0.001	220.112
5080	19.645	0.57611	223.336	1575.006	0.10415	0.001	220.113
5081	12.721	0.27568	221.670	1568.766	0.10201	0.002	220.098
5082	12.727	0.27568	221.660	1568.796	0.10152	0.002	220.098
5083	12.731	0.34071	222.037	1567.998	0.10172	0.001	220.100
5084	12.727	0.34071	222.036	1567.994	0.10116	0.002	220.101
5085	12.727	0.41173	222.442	1567.129	0.10158	0.001	220.102
5086	12.724	0.41173	222.444	1567.122	0.10157	0.001	220.103
5087	12.723	0.49054	222.895	1566.160	0.10174	0.001	220.105
5088	12.729	0.49054	222.894	1566.171	0.10148	0.001	220.106
5089	12.732	0.57612	223.388	1565.121	0.10160	0.001	220.108
5090	12.740	0.57611	223.386	1565.137	0.10145	0.001	220.109
5091	6.362	0.27567	221.696	1559.283	0.09993	0.002	220.104
5092	6.364	0.27567	221.695	1559.287	0.10011	0.002	220.106
5093	6.371	0.34070	222.074	1558.462	0.09987	0.001	220.107
5094	6.379	0.34069	222.076	1558.471	0.09991	0.001	220.108
5095	6.389	0.41171	222.488	1557.579	0.09989	0.001	220.112
5096	6.392	0.41171	222.485	1557.591	0.09943	0.001	220.112
5097	6.395	0.49051	222.952	1556.566	0.09960	0.001	220.115
5098	6.394	0.49050	222.948	1556.574	0.09964	0.001	220.116
5099	6.396	0.57609	223.451	1555.468	0.09962	0.001	220.117
5100	6.398	0.57609	223.446	1555.483	0.09968	0.001	220.119
5101	0.260	0.27564	221.715	1549.626	0.09808	0.002	220.122
5102	0.265	0.27563	221.742	1549.570	0.09773	0.002	220.125
5103	0.265	0.34065	222.134	1548.676	0.09808	0.001	220.127
5104	0.262	0.34065	222.132	1548.676	0.09782	0.001	220.129

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5105	0.263	0.41165	222.550	1547.724	0.09806	0.001	220.131
5106	0.263	0.41164	222.548	1547.728	0.09791	0.001	220.132
5107	0.265	0.49046	223.021	1546.652	0.09772	0.001	220.136
5108	0.271	0.49046	223.017	1546.670	0.09772	0.001	220.139
5109	0.275	0.57605	223.523	1545.522	0.09791	0.001	220.141
5110	0.275	0.57606	223.522	1545.523	0.09715	0.001	220.142
5111	0.077	0.27566	221.785	1549.168	0.09731	0.003	220.167
5112	0.082	0.27566	221.777	1549.193	0.09798	0.002	220.168
5113	0.085	0.34068	222.166	1548.309	0.09789	0.002	220.171
5114	0.082	0.34069	222.175	1548.284	0.09789	0.001	220.172
5115	0.077	0.41171	222.591	1547.325	0.09747	0.001	220.172
5116	0.079	0.41172	222.590	1547.329	0.09792	0.001	220.174
5117	0.072	0.49054	223.063	1546.237	0.09781	0.001	220.177
5118	0.073	0.49054	223.058	1546.250	0.09803	0.001	220.178
5119	0.075	0.57614	223.579	1545.062	0.09790	0.001	220.179
5120	0.078	0.57614	223.569	1545.090	0.09766	0.001	220.180
6001	68.452	0.27571	251.547	1583.414	0.10951	0.003	250.094
6002	68.424	0.27571	251.547	1583.382	0.10970	0.004	250.091
6003	68.414	0.34922	251.945	1582.699	0.10913	0.002	250.097
6004	68.397	0.34922	251.948	1582.675	0.10914	0.002	250.094
6005	68.418	0.43146	252.373	1581.981	0.10985	0.002	250.087
6006	68.401	0.43145	252.378	1581.953	0.10976	0.002	250.090
6007	68.337	0.52120	252.853	1581.079	0.10913	0.001	250.090
6008	68.306	0.52121	252.853	1581.043	0.10923	0.001	250.086
6009	68.283	0.62076	253.389	1580.114	0.10935	0.001	250.083
6010	68.268	0.62075	253.391	1580.093	0.10953	0.001	250.085
6012	59.058	0.27571	251.521	1572.424	0.10729	0.003	250.038
6013	59.051	0.34922	251.928	1571.707	0.10680	0.002	250.036
6014	59.048	0.34923	251.915	1571.726	0.10707	0.002	250.031
6015	59.043	0.43147	252.371	1570.925	0.10679	0.001	250.035
6016	59.039	0.43146	252.358	1570.945	0.10703	0.002	250.031
6017	59.040	0.52119	252.856	1570.079	0.10765	0.001	250.035
6018	59.041	0.52118	252.848	1570.095	0.10716	0.001	250.029
6019	59.086	0.62070	253.391	1569.204	0.10739	0.001	250.030
6020	59.051	0.62069	253.392	1569.160	0.10708	0.001	250.029
6022	50.117	0.27568	251.518	1561.276	0.10481	0.003	250.002
6023	50.114	0.34919	251.926	1560.540	0.10457	0.002	250.000
6024	50.114	0.34918	251.927	1560.539	0.10517	0.002	250.002
6025	50.111	0.43140	252.377	1559.725	0.10526	0.002	250.001
6026	50.110	0.43141	252.378	1559.723	0.10493	0.001	249.997
6027	50.110	0.52113	252.867	1558.843	0.10503	0.001	249.998
6028	50.113	0.52113	252.870	1558.842	0.10490	0.001	249.995
6029	50.111	0.62063	253.426	1557.841	0.10559	0.001	249.997
6030	50.108	0.62064	253.419	1557.851	0.10512	0.001	249.995
6031	41.390	0.27563	251.494	1549.725	0.10245	0.003	249.947
6032	41.390	0.27563	251.494	1549.726	0.10211	0.002	249.948
6033	41.386	0.34912	251.905	1548.956	0.10214	0.002	249.943
6034	41.383	0.34912	251.902	1548.956	0.10244	0.002	249.946

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
6035	41.395	0.43133	252.367	1548.108	0.10238	0.002	249.943
6036	41.388	0.43133	252.363	1548.106	0.10250	0.002	249.943
6037	41.385	0.52104	252.880	1547.139	0.10278	0.001	249.943
6038	41.379	0.52104	252.866	1547.158	0.10270	0.001	249.939
6039	41.377	0.62053	253.439	1546.090	0.10286	0.001	249.943
6040	41.377	0.62054	253.433	1546.101	0.10275	0.001	249.941
6041	33.231	0.27559	251.531	1538.072	0.09996	0.003	249.955
6042	33.232	0.27559	251.530	1538.076	0.10033	0.003	249.953
6043	33.233	0.34907	251.956	1537.255	0.10063	0.002	249.954
6044	33.243	0.34906	251.955	1537.272	0.10010	0.002	249.952
6045	33.238	0.43127	252.424	1536.359	0.10035	0.001	249.952
6046	33.234	0.43126	252.420	1536.363	0.10046	0.002	249.948
6047	33.234	0.52094	252.943	1535.354	0.10042	0.001	249.955
6048	33.233	0.52094	252.939	1535.360	0.10046	0.001	249.948
6049	33.237	0.62042	253.517	1534.251	0.10078	0.001	249.949
6050	33.232	0.62043	253.508	1534.260	0.10053	0.001	249.947
6052	25.772	0.21075	251.123	1527.559	0.09800	0.004	249.904
6053	25.770	0.27560	251.507	1526.789	0.09813	0.002	249.902
6054	25.773	0.27560	251.514	1526.779	0.09845	0.003	249.905
6055	25.777	0.34909	251.939	1525.934	0.09777	0.002	249.904
6056	25.785	0.34908	251.938	1525.948	0.09763	0.002	249.902
6057	25.789	0.43128	252.423	1524.984	0.09813	0.001	249.900
6058	25.789	0.43127	252.418	1524.996	0.09844	0.001	249.896
6059	25.795	0.52094	252.947	1523.945	0.09824	0.001	249.898
6060	25.793	0.52094	252.941	1523.955	0.09845	0.001	249.896
6061	18.733	0.21072	251.104	1516.174	0.09590	0.004	249.855
6062	18.735	0.21072	251.103	1516.180	0.09739	0.004	249.859
6063	18.736	0.27556	251.494	1515.367	0.09560	0.003	249.856
6064	18.737	0.27556	251.490	1515.379	0.09563	0.003	249.855
6065	18.745	0.34904	251.931	1514.476	0.09607	0.002	249.856
6067	18.738	0.43123	252.428	1513.429	0.09614	0.001	249.854
6068	18.759	0.43123	252.421	1513.481	0.09612	0.002	249.849
6069	18.748	0.52090	252.965	1512.329	0.09613	0.001	249.855
6070	18.742	0.52090	252.956	1512.338	0.09628	0.001	249.853
6071	11.983	0.21071	251.091	1504.422	0.09543	0.003	249.815
6072	11.988	0.21071	251.091	1504.430	0.09510	0.003	249.809
6073	11.991	0.27555	251.479	1503.596	0.09333	0.003	249.810
6074	11.985	0.27555	251.486	1503.569	0.09429	0.002	249.815
6075	11.987	0.34903	251.931	1502.610	0.09379	0.002	249.811
6076	11.981	0.34903	251.928	1502.606	0.09352	0.002	249.813
6077	11.983	0.43121	252.436	1501.506	0.09411	0.001	249.813
6078	11.989	0.43122	252.434	1501.522	0.09405	0.001	249.811
6079	11.988	0.52091	252.989	1500.316	0.09428	0.001	249.811
6080	11.984	0.52090	252.984	1500.320	0.09420	0.001	249.808
6081	5.650	0.21070	251.070	1492.535	0.09183	0.003	249.765
6082	5.663	0.21070	251.072	1492.557	0.09180	0.003	249.768
6083	5.649	0.27553	251.473	1491.622	0.09147	0.002	249.765
6084	5.648	0.27553	251.472	1491.622	0.09141	0.002	249.764

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
6085	5.646	0.34900	251.936	1490.566	0.09185	0.001	249.768
6086	5.652	0.34900	251.933	1490.585	0.09164	0.001	249.766
6087	5.647	0.43119	252.449	1489.403	0.09186	0.001	249.765
6088	5.653	0.43119	252.447	1489.421	0.09193	0.001	249.766
6089	5.648	0.52084	252.998	1488.162	0.09209	0.001	249.762
6090	5.649	0.52085	252.996	1488.168	0.09207	0.001	249.762
6091	0.231	0.21069	251.053	1481.544	0.08985	0.003	249.724
6092	0.231	0.21069	251.056	1481.540	0.08946	0.003	249.723
6093	0.249	0.27553	251.464	1480.613	0.09107	0.002	249.722
6094	0.361	0.27551	251.461	1480.859	0.09033	0.003	249.720
6095	0.417	0.34894	251.925	1479.882	0.09018	0.002	249.722
6096	0.450	0.34893	251.922	1479.957	0.08958	0.002	249.720
6097	0.476	0.43108	252.452	1478.761	0.09034	0.001	249.723
6098	0.496	0.43107	252.448	1478.813	0.09002	0.001	249.725
6099	0.514	0.52070	253.013	1477.517	0.09013	0.001	249.720
6100	0.528	0.52068	253.009	1477.557	0.09009	0.001	249.719
7001	68.522	0.23814	281.367	1533.870	0.10410	0.003	280.040
7002	68.522	0.23813	281.360	1533.881	0.10471	0.003	280.037
7003	68.523	0.31134	281.766	1533.216	0.10384	0.002	280.036
7004	68.521	0.31134	281.772	1533.203	0.10435	0.002	280.034
7005	68.521	0.39426	282.237	1532.440	0.10444	0.002	280.034
7006	68.518	0.39425	282.231	1532.446	0.10455	0.001	280.033
7007	68.512	0.48696	282.739	1531.606	0.10465	0.001	280.030
7008	68.507	0.48696	282.729	1531.616	0.10479	0.001	280.022
7009	68.504	0.58810	283.290	1530.692	0.10520	0.001	280.027
7010	68.501	0.58810	283.297	1530.677	0.10505	0.001	280.024
7011	68.456	0.23810	281.313	1533.871	0.10386	0.004	279.995
7012	68.454	0.23810	281.322	1533.853	0.10344	0.004	279.997
7013	68.450	0.31130	281.733	1533.175	0.10493	0.003	279.999
7014	68.451	0.31130	281.721	1533.195	0.10408	0.002	279.995
7015	68.448	0.39421	282.185	1532.430	0.10461	0.002	279.989
7016	68.439	0.39421	282.178	1532.429	0.10468	0.001	279.983
7017	68.428	0.48691	282.700	1531.558	0.10496	0.001	279.986
7018	68.421	0.48691	282.700	1531.550	0.10478	0.001	279.986
7019	68.418	0.58804	283.256	1530.635	0.10518	0.001	279.982
7020	68.421	0.58803	283.254	1530.641	0.10475	0.001	279.982
7021	58.187	0.23804	281.280	1520.006	0.10131	0.003	279.913
7022	58.185	0.23804	281.283	1519.998	0.10094	0.003	279.913
7023	58.181	0.31122	281.693	1519.294	0.10212	0.002	279.908
7024	58.180	0.31125	281.697	1519.284	0.10151	0.002	279.913
7025	58.176	0.39415	282.164	1518.483	0.10184	0.001	279.909
7026	58.170	0.39415	282.158	1518.485	0.10174	0.001	279.904
7027	58.169	0.48684	282.689	1517.579	0.10215	0.001	279.904
7028	58.168	0.48683	282.681	1517.591	0.10230	0.001	279.903
7029	58.166	0.58794	283.249	1516.619	0.10265	0.001	279.899
7030	58.167	0.58793	283.252	1516.614	0.10256	0.001	279.903
7031	49.052	0.23799	281.310	1506.613	0.09923	0.003	279.912
7032	49.049	0.23796	281.311	1506.608	0.09852	0.003	279.913

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7033	49.045	0.31112	281.735	1505.849	0.09901	0.002	279.909
7034	49.042	0.31112	281.717	1505.876	0.09889	0.002	279.909
7035	49.041	0.39398	282.208	1505.004	0.09939	0.002	279.905
7036	49.037	0.39398	282.209	1504.996	0.09928	0.001	279.907
7037	49.036	0.48663	282.748	1504.039	0.09978	0.001	279.907
7038	49.030	0.48662	282.745	1504.037	0.09959	0.001	279.901
7039	49.031	0.58767	283.326	1503.007	0.09996	0.001	279.901
7040	49.030	0.58767	283.321	1503.015	0.10014	0.001	279.899
7041	39.941	0.23790	281.321	1492.204	0.09565	0.003	279.889
7042	39.941	0.23790	281.315	1492.216	0.09633	0.003	279.884
7043	39.942	0.31103	281.751	1491.409	0.09577	0.002	279.881
7044	39.943	0.31103	281.750	1491.412	0.09664	0.002	279.886
7045	39.943	0.39387	282.245	1490.496	0.09652	0.001	279.885
7046	39.942	0.39387	282.235	1490.514	0.09638	0.001	279.879
7047	39.940	0.48648	282.789	1489.485	0.09713	0.001	279.880
7048	39.938	0.48648	282.780	1489.498	0.09701	0.001	279.877
7049	39.935	0.58750	283.382	1488.379	0.09760	0.001	279.876
7050	39.930	0.58750	283.384	1488.367	0.09733	0.001	279.877
7051	32.080	0.23785	281.344	1478.694	0.09358	0.003	279.886
7052	32.075	0.23785	281.343	1478.688	0.09336	0.003	279.887
7053	32.073	0.31098	281.796	1477.811	0.09374	0.002	279.887
7054	32.073	0.31097	281.793	1477.815	0.09378	0.002	279.886
7055	32.075	0.39379	282.291	1476.857	0.09432	0.001	279.882
7056	32.072	0.39375	282.290	1476.855	0.09387	0.002	279.883
7057	32.069	0.48633	282.857	1475.755	0.09453	0.001	279.882
7058	32.070	0.48633	282.851	1475.768	0.09460	0.001	279.881
7059	32.066	0.58732	283.467	1474.571	0.09506	0.001	279.880
7060	32.062	0.58733	283.465	1474.568	0.09511	0.001	279.879
7061	24.432	0.23784	281.373	1464.395	0.09127	0.002	279.878
7062	24.434	0.23784	281.375	1464.396	0.09105	0.003	279.875
7063	24.432	0.31095	281.833	1463.465	0.09155	0.002	279.877
7064	24.432	0.31095	281.826	1463.479	0.09164	0.002	279.873
7065	24.429	0.39375	282.345	1462.422	0.09160	0.001	279.877
7066	24.426	0.39375	282.338	1462.432	0.09143	0.001	279.872
7067	24.425	0.48633	282.918	1461.254	0.09198	0.001	279.871
7068	24.421	0.48633	282.909	1461.265	0.09184	0.001	279.869
7069	24.419	0.58731	283.535	1459.994	0.09245	0.001	279.867
7070	24.418	0.58731	283.532	1459.998	0.09244	0.001	279.865
7072	17.449	0.23759	281.460	1449.997	0.08891	0.002	279.930
7073	17.451	0.31062	281.927	1449.008	0.08922	0.002	279.928
7074	17.451	0.31062	281.925	1449.015	0.08898	0.002	279.929
7075	17.452	0.39333	282.450	1447.899	0.08780	0.001	279.928
7076	17.451	0.39333	282.451	1447.895	0.08841	0.001	279.923
7077	17.453	0.48581	283.045	1446.636	0.08945	0.001	279.929
7078	17.451	0.48581	283.029	1446.666	0.08944	0.001	279.921
7079	17.452	0.58671	283.678	1445.287	0.08988	0.001	279.922
7080	17.454	0.58671	283.672	1445.305	0.09024	0.001	279.922
7081	17.457	0.19850	281.196	1450.576	0.08836	0.003	279.913

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7082	17.457	0.19849	281.197	1450.573	0.08819	0.003	279.913
7083	17.456	0.25146	281.529	1449.865	0.08936	0.002	279.911
7084	17.455	0.25146	281.531	1449.861	0.08905	0.002	279.911
7085	17.456	0.31063	281.905	1449.066	0.08880	0.002	279.909
7086	17.455	0.31063	281.901	1449.073	0.08912	0.002	279.905
7087	17.454	0.37607	282.322	1448.176	0.08897	0.001	279.905
7088	17.453	0.37607	282.317	1448.184	0.08887	0.001	279.905
7089	17.452	0.44770	282.777	1447.205	0.08913	0.001	279.902
7090	17.452	0.44771	282.776	1447.208	0.08913	0.001	279.903
7091	11.314	0.19849	281.203	1436.891	0.08599	0.003	279.899
7092	11.309	0.19848	281.211	1436.863	0.08582	0.003	279.901
7093	11.325	0.25145	281.559	1436.123	0.08638	0.002	279.899
7094	11.298	0.25145	281.552	1436.075	0.08626	0.002	279.899
7095	11.313	0.31062	281.938	1435.247	0.08657	0.002	279.899
7096	11.309	0.31062	281.944	1435.226	0.08572	0.002	279.896
7097	11.308	0.37606	282.355	1434.304	0.08667	0.001	279.893
7098	11.302	0.37601	282.361	1434.278	0.08685	0.001	279.895
7099	11.298	0.44764	282.829	1433.221	0.08714	0.001	279.891
7100	11.294	0.44764	282.826	1433.217	0.08706	0.001	279.889
7101	5.439	0.19845	281.205	1422.516	0.08492	0.004	279.865
7102	5.440	0.19845	281.198	1422.537	0.08406	0.003	279.859
7103	5.442	0.25140	281.555	1421.698	0.08422	0.003	279.860
7104	5.442	0.25140	281.557	1421.697	0.08414	0.002	279.857
7105	5.443	0.31055	281.950	1420.769	0.08420	0.002	279.857
7106	5.445	0.31056	281.943	1420.792	0.08461	0.002	279.857
7107	5.446	0.37598	282.378	1419.766	0.08447	0.002	279.855
7108	5.446	0.37599	282.375	1419.772	0.08447	0.002	279.854
7109	5.444	0.44760	282.851	1418.642	0.08510	0.001	279.852
7110	5.442	0.44760	282.856	1418.628	0.08461	0.001	279.853
7111	0.050	0.19844	281.215	1407.895	0.08200	0.004	279.849
7112	0.051	0.19843	281.217	1407.892	0.08182	0.004	279.852
7113	0.050	0.25138	281.579	1406.983	0.08231	0.003	279.852
7114	0.050	0.25138	281.581	1406.977	0.08192	0.003	279.849
7115	0.051	0.31053	281.989	1405.956	0.08254	0.002	279.853
7116	0.050	0.31053	281.983	1405.970	0.08195	0.002	279.848
7117	0.050	0.37595	282.433	1404.841	0.08225	0.001	279.844
7118	0.051	0.37595	282.427	1404.859	0.08263	0.002	279.847
7119	0.050	0.44755	282.919	1403.621	0.08257	0.002	279.843
7120	0.053	0.44755	282.915	1403.639	0.08232	0.001	279.841

Table S4. Thermal conductivity of vapor R1336mzz(Z) from steady-state measurements with a single platinum hot wire at temperatures from (311 to 497) K.

Run Point	P_e / MPa	q / W·m^{-1}	T_e / K	ρ_e / kg·m^{-3}	λ_e / W·m^{-1}·K^{-1}	ΔT_a / K	t_s / s	t_e / s	Ra
2042	0.095	0.02490	326.652	5.983	0.01321	1.925	24.24	60.00	818
2044	0.096	0.02490	326.650	6.035	0.01319	1.926	9.84	60.00	834
2046	0.097	0.02917	326.818	6.077	0.01313	2.267	17.04	60.00	995
2048	0.098	0.02917	326.819	6.129	0.01314	2.266	19.44	60.00	1013
2050	0.098	0.03385	326.999	6.178	0.01314	2.628	24.24	60.00	1193
2052	0.099	0.03384	326.999	6.224	0.01315	2.624	9.84	60.00	1210
2054	0.100	0.03887	327.199	6.278	0.01313	3.018	12.24	60.00	1415
2056	0.101	0.03887	327.196	6.324	0.01312	3.020	9.84	60.00	1439
2058	0.102	0.04424	327.405	6.378	0.01314	3.432	14.64	60.00	1662
2060	0.102	0.04424	327.406	6.424	0.01312	3.436	14.64	60.00	1690
2062	0.132	0.02490	326.636	8.388	0.01335	1.900	7.44	60.00	1706
2064	0.132	0.02490	326.640	8.388	0.01331	1.907	7.44	60.00	1711
2066	0.132	0.02917	326.822	8.402	0.01310	2.267	41.04	60.00	2038
2068	0.132	0.02917	326.817	8.416	0.01312	2.264	24.24	60.00	2043
2070	0.132	0.03385	326.997	8.424	0.01314	2.622	21.84	60.00	2366
2072	0.132	0.03385	326.989	8.424	0.01316	2.618	9.84	60.00	2362
2074	0.132	0.03888	327.177	8.418	0.01318	3.001	17.04	60.00	2698
2076	0.132	0.03888	327.178	8.411	0.01318	3.001	17.04	60.00	2693
2078	0.132	0.04425	327.380	8.412	0.01322	3.402	7.44	60.00	3045
2080	0.132	0.04425	327.378	8.405	0.01320	3.409	9.84	60.00	3046
2082	0.160	0.02490	326.645	10.319	0.01320	1.919	7.44	60.00	2763
2084	0.159	0.02490	326.649	10.298	0.01322	1.916	7.44	60.00	2746
2086	0.159	0.02917	326.813	10.284	0.01319	2.248	14.64	60.00	3205
2088	0.159	0.02917	326.809	10.264	0.01322	2.242	7.44	60.00	3182
2090	0.159	0.03385	326.989	10.243	0.01322	2.601	19.44	60.00	3665
2092	0.159	0.03385	326.987	10.236	0.01324	2.597	9.84	60.00	3654
2094	0.159	0.03888	327.173	10.228	0.01326	2.975	7.44	60.00	4169
2096	0.158	0.03888	327.164	10.201	0.01330	2.966	7.44	60.00	4131
2098	0.158	0.04425	327.358	10.193	0.01335	3.361	9.84	60.00	4662
2100	0.158	0.04425	327.354	10.180	0.01337	3.356	9.84	60.00	4640
2102	0.183	0.02490	326.568	11.925	0.01355	1.867	9.84	60.00	3775
2104	0.182	0.02491	326.547	11.883	0.01348	1.876	9.84	60.00	3763
2106	0.182	0.02918	326.659	11.863	0.01363	2.172	7.44	60.00	4333
2108	0.182	0.02918	326.622	11.865	0.01371	2.159	7.44	60.00	4311
2110	0.182	0.03385	326.751	11.866	0.01381	2.484	9.84	60.00	4952
2112	0.182	0.03385	326.740	11.874	0.01371	2.501	9.84	60.00	4995
2114	0.182	0.03889	326.947	11.885	0.01350	2.915	5.04	60.00	5817
2116	0.182	0.03890	326.951	11.899	0.01354	2.907	5.04	60.00	5817
2118	0.182	0.04427	327.147	11.882	0.01363	3.281	5.04	60.00	6528
2120	0.182	0.04427	327.169	11.881	0.01361	3.286	5.04	60.00	6535
3002	0.276	0.02396	339.928	17.831	0.01480	1.633	7.44	60.00	7284
3004	0.276	0.02396	339.929	17.831	0.01485	1.628	5.04	60.00	7260
3006	0.276	0.02806	340.070	17.820	0.01484	1.904	7.44	60.00	8462
3008	0.276	0.02806	340.065	17.820	0.01487	1.901	7.44	60.00	8447
3010	0.277	0.03256	340.212	17.816	0.01489	2.197	5.04	60.00	9737
3012	0.277	0.03256	340.211	17.816	0.01491	2.195	5.04	60.00	9729

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
3014	0.277	0.03740	340.366	17.804	0.01501	2.498	2.64	60.00	11028
3016	0.277	0.03740	340.368	17.804	0.01497	2.504	5.04	60.00	11056
3018	0.277	0.04257	340.523	17.799	0.01510	2.819	5.04	60.00	12412
3020	0.277	0.04256	340.522	17.792	0.01513	2.814	5.04	60.00	12375
3042	0.099	0.02396	339.929	5.959	0.01426	1.716	2.64	60.00	623
3044	0.100	0.02396	339.925	5.977	0.01423	1.720	9.84	60.00	628
3046	0.100	0.02807	340.080	5.974	0.01416	2.024	17.04	60.00	738
3048	0.100	0.02807	340.075	5.974	0.01418	2.021	9.84	60.00	737
3050	0.100	0.03257	340.240	5.996	0.01415	2.350	14.64	60.00	862
3052	0.100	0.03257	340.238	6.008	0.01413	2.352	19.44	60.00	866
3054	0.100	0.03740	340.413	6.005	0.01412	2.702	14.64	60.00	992
3056	0.100	0.03741	340.410	6.024	0.01416	2.695	5.04	60.00	996
3058	0.101	0.04257	340.597	6.026	0.01415	3.069	9.84	60.00	1133
3060	0.101	0.04257	340.595	6.026	0.01415	3.070	12.24	60.00	1133
3062	0.162	0.02396	339.911	9.937	0.01425	1.713	7.44	60.00	1919
3064	0.162	0.02396	339.914	9.937	0.01423	1.716	14.64	60.00	1922
3066	0.162	0.02807	340.057	9.925	0.01423	2.009	7.44	60.00	2240
3068	0.162	0.02807	340.059	9.932	0.01420	2.012	12.24	60.00	2247
3070	0.162	0.03257	340.220	9.926	0.01422	2.331	7.44	60.00	2594
3072	0.162	0.03257	340.218	9.920	0.01423	2.328	14.64	60.00	2588
3074	0.162	0.03741	340.386	9.920	0.01423	2.672	12.24	60.00	2965
3076	0.162	0.03741	340.396	9.926	0.01421	2.677	17.04	60.00	2974
3078	0.162	0.04257	340.574	9.926	0.01422	3.042	17.04	60.00	3372
3080	0.162	0.04258	340.573	9.939	0.01425	3.035	9.84	60.00	3375
3082	0.237	0.02396	339.886	15.030	0.01455	1.668	7.44	60.00	4899
3084	0.237	0.02396	339.892	15.008	0.01448	1.677	21.84	60.00	4907
3086	0.236	0.02807	340.033	14.979	0.01454	1.953	7.44	60.00	5678
3088	0.236	0.02807	340.026	14.965	0.01455	1.953	9.84	60.00	5664
3090	0.236	0.03257	340.180	14.921	0.01457	2.258	9.84	60.00	6490
3092	0.236	0.03257	340.180	14.914	0.01461	2.253	7.44	60.00	6468
3094	0.236	0.03741	340.334	14.898	0.01468	2.571	5.04	60.00	7348
3096	0.235	0.03741	340.334	14.870	0.01471	2.566	5.04	60.00	7299
3098	0.236	0.04257	340.504	14.894	0.01474	2.909	5.04	60.00	8290
3100	0.236	0.04257	340.504	14.894	0.01475	2.907	5.04	60.00	8283
3102	0.205	0.02396	339.900	12.854	0.01433	1.699	14.64	60.00	3440
3104	0.206	0.02396	339.897	12.868	0.01436	1.695	12.24	60.00	3442
3106	0.207	0.02807	340.037	12.929	0.01438	1.981	9.84	60.00	4059
3108	0.207	0.02807	340.038	12.935	0.01435	1.985	17.04	60.00	4073
3110	0.208	0.03257	340.186	12.982	0.01441	2.291	7.44	60.00	4731
3112	0.208	0.03257	340.189	13.016	0.01444	2.286	7.44	60.00	4751
3114	0.208	0.03741	340.355	13.035	0.01447	2.616	12.24	60.00	5443
3116	0.209	0.03741	340.352	13.089	0.01448	2.616	7.44	60.00	5495
3118	0.210	0.04257	340.520	13.121	0.01458	2.953	9.84	60.00	6226
3120	0.210	0.04257	340.515	13.108	0.01459	2.949	5.04	60.00	6205
3122	0.184	0.02396	339.935	11.434	0.01429	1.706	12.24	60.00	2630
3124	0.185	0.02396	339.926	11.448	0.01429	1.706	14.64	60.00	2638
3126	0.185	0.02807	340.076	11.481	0.01432	1.993	9.84	60.00	3098
3128	0.186	0.02807	340.073	11.528	0.01429	1.996	21.84	60.00	3132

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
3130	0.186	0.03257	340.234	11.508	0.01431	2.311	21.84	60.00	3604
3132	0.186	0.03257	340.226	11.528	0.01433	2.309	12.24	60.00	3615
3134	0.186	0.03741	340.401	11.554	0.01434	2.646	9.84	60.00	4156
3136	0.187	0.03741	340.401	11.574	0.01435	2.645	12.24	60.00	4171
3138	0.187	0.04257	340.579	11.592	0.01437	3.002	14.64	60.00	4741
3140	0.188	0.04257	340.578	11.626	0.01436	3.005	9.84	60.00	4777
4002	0.060	0.02607	311.265	3.942	0.01192	2.234	9.84	60.00	461
4004	0.060	0.02607	311.262	3.935	0.01191	2.235	12.24	60.00	460
4006	0.060	0.03054	311.450	3.919	0.01193	2.615	12.24	60.00	532
4008	0.060	0.03054	311.448	3.919	0.01191	2.619	17.04	60.00	533
4010	0.060	0.03544	311.654	3.903	0.01192	3.036	19.44	60.00	611
4012	0.060	0.03544	311.651	3.889	0.01193	3.033	9.84	60.00	606
4014	0.060	0.04070	311.869	3.900	0.01195	3.477	19.44	60.00	697
4016	0.060	0.04070	311.870	3.879	0.01196	3.475	9.84	60.00	689
4018	0.060	0.04633	312.111	3.883	0.01195	3.957	9.84	60.00	784
4020	0.060	0.04633	312.107	3.869	0.01195	3.957	14.64	60.00	778
4022	0.105	0.02607	311.220	6.993	0.01204	2.208	14.64	60.00	1597
4024	0.105	0.02607	311.210	7.007	0.01208	2.200	7.44	60.00	1599
4026	0.105	0.03054	311.398	7.024	0.01205	2.583	24.24	60.00	1883
4028	0.105	0.03054	311.386	7.031	0.01209	2.574	12.24	60.00	1881
4030	0.106	0.03544	311.583	7.040	0.01210	2.983	9.84	60.00	2181
4032	0.106	0.03544	311.571	7.047	0.01211	2.980	21.84	60.00	2184
4034	0.106	0.04071	311.771	7.048	0.01216	3.406	14.64	60.00	2491
4036	0.106	0.04071	311.753	7.056	0.01218	3.400	17.04	60.00	2493
4038	0.106	0.04633	311.957	7.057	0.01223	3.852	12.24	60.00	2819
4040	0.106	0.04633	311.941	7.072	0.01224	3.849	14.64	60.00	2830
4042	0.106	0.02608	311.034	7.111	0.01207	2.202	12.24	60.00	1659
4044	0.106	0.02608	311.012	7.105	0.01213	2.191	12.24	60.00	1647
4046	0.106	0.03055	311.178	7.107	0.01218	2.555	5.04	60.00	1918
4048	0.106	0.03056	311.159	7.108	0.01223	2.545	7.44	60.00	1912
4050	0.106	0.03546	311.345	7.103	0.01227	2.943	12.24	60.00	2202
4052	0.106	0.03545	311.328	7.110	0.01231	2.933	9.84	60.00	2200
4054	0.106	0.04072	311.537	7.097	0.01232	3.365	19.44	60.00	2507
4056	0.106	0.04072	311.523	7.105	0.01235	3.355	12.24	60.00	2506
4058	0.106	0.04635	311.742	7.099	0.01237	3.811	9.84	60.00	2833
4060	0.106	0.04636	311.782	7.097	0.01210	3.896	19.44	60.00	2894
4102	0.106	0.02608	311.072	7.117	0.01201	2.212	5.04	60.00	1669
4104	0.107	0.02608	311.040	7.139	0.01211	2.195	5.04	60.00	1668
4106	0.107	0.03055	311.209	7.142	0.01208	2.577	17.04	60.00	1955
4108	0.107	0.03055	311.179	7.150	0.01215	2.561	17.04	60.00	1949
4110	0.107	0.03545	311.348	7.145	0.01225	2.947	9.84	60.00	2235
4112	0.106	0.03545	311.319	7.103	0.01228	2.939	14.64	60.00	2200
4116	0.107	0.04074	311.529	7.126	0.01202	3.449	7.44	60.00	2593
4118	0.107	0.04637	311.743	7.134	0.01207	3.905	17.04	60.00	2935
4120	0.107	0.04637	311.732	7.134	0.01211	3.892	14.64	60.00	2927
5022	0.365	0.03128	354.237	22.939	0.01652	1.892	7.44	60.00	12983
5024	0.365	0.03128	354.253	22.959	0.01628	1.919	5.04	60.00	13196
5026	0.365	0.03593	354.385	22.974	0.01641	2.180	5.04	60.00	14984

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
5028	0.366	0.03593	354.387	22.981	0.01642	2.178	7.44	60.00	14984
5030	0.366	0.04089	354.528	22.996	0.01652	2.457	2.64	60.00	16893
5032	0.366	0.04089	354.531	23.017	0.01651	2.458	2.64	60.00	16940
5034	0.366	0.04617	354.668	23.010	0.01664	2.744	2.64	60.00	18864
5036	0.366	0.04617	354.673	23.010	0.01664	2.745	2.64	60.00	18864
5038	0.367	0.05179	354.838	23.015	0.01665	3.063	2.64	60.00	21016
5040	0.367	0.05179	354.829	23.030	0.01670	3.055	2.64	60.00	20998
5042	0.306	0.03128	354.306	18.802	0.01580	1.994	5.04	60.00	8315
5044	0.307	0.03128	354.308	18.877	0.01584	1.989	5.04	60.00	8376
5046	0.308	0.03593	354.440	18.922	0.01590	2.271	5.04	60.00	9604
5048	0.309	0.03593	354.442	18.983	0.01589	2.272	5.04	60.00	9684
5050	0.310	0.04089	354.592	19.047	0.01593	2.574	5.04	60.00	11039
5052	0.311	0.04089	354.591	19.102	0.01594	2.570	5.04	60.00	11104
5054	0.311	0.04617	354.726	19.140	0.01624	2.844	2.64	60.00	12323
5056	0.312	0.04617	354.728	19.181	0.01623	2.845	2.64	60.00	12389
5058	0.313	0.05178	354.891	19.209	0.01632	3.166	2.64	60.00	13807
5060	0.313	0.05179	354.893	19.250	0.01631	3.167	2.64	60.00	13888
5062	0.245	0.03128	354.338	14.722	0.01547	2.050	9.84	60.00	4762
5064	0.247	0.03128	354.335	14.827	0.01549	2.047	12.24	60.00	4836
5066	0.248	0.03593	354.479	14.911	0.01553	2.342	5.04	60.00	5596
5068	0.249	0.03593	354.480	15.002	0.01558	2.334	7.44	60.00	5658
5070	0.251	0.04089	354.628	15.072	0.01568	2.636	7.44	60.00	6448
5072	0.252	0.04089	354.621	15.158	0.01568	2.636	7.44	60.00	6534
5074	0.253	0.04617	354.790	15.200	0.01576	2.957	5.04	60.00	7364
5076	0.254	0.04617	354.787	15.279	0.01577	2.953	5.04	60.00	7445
5078	0.255	0.05178	354.958	15.348	0.01582	3.297	5.04	60.00	8384
5080	0.256	0.05179	354.957	15.420	0.01583	3.293	5.04	60.00	8466
5082	0.207	0.03128	354.346	12.296	0.01529	2.079	9.84	60.00	3186
5084	0.209	0.03128	354.351	12.391	0.01526	2.083	21.84	60.00	3248
5086	0.210	0.03592	354.501	12.479	0.01529	2.386	9.84	60.00	3776
5088	0.211	0.03592	354.499	12.549	0.01521	2.397	26.64	60.00	3842
5090	0.213	0.04088	354.660	12.631	0.01531	2.707	7.44	60.00	4396
5092	0.214	0.04088	354.660	12.714	0.01530	2.710	24.24	60.00	4466
5094	0.215	0.04617	354.827	12.795	0.01534	3.048	19.44	60.00	5087
5096	0.217	0.04616	354.807	12.866	0.01551	3.015	7.44	60.00	5098
5098	0.218	0.05178	354.984	12.941	0.01559	3.359	7.44	60.00	5744
5100	0.219	0.05178	354.981	13.018	0.01559	3.361	9.84	60.00	5826
5102	0.151	0.03127	354.331	8.785	0.01540	2.071	14.64	60.00	1496
5104	0.152	0.03127	354.333	8.846	0.01536	2.075	12.24	60.00	1522
5106	0.153	0.03592	354.481	8.909	0.01539	2.378	7.44	60.00	1769
5108	0.153	0.03592	354.483	8.940	0.01538	2.379	12.24	60.00	1783
5110	0.154	0.04088	354.637	8.959	0.01539	2.706	19.44	60.00	2035
5112	0.154	0.04088	354.644	8.990	0.01539	2.705	12.24	60.00	2049
5114	0.155	0.04617	354.815	9.040	0.01534	3.063	19.44	60.00	2344
5116	0.156	0.04617	354.813	9.064	0.01538	3.055	12.24	60.00	2352
5118	0.156	0.05178	354.996	9.077	0.01538	3.426	19.44	60.00	2640
5120	0.156	0.05178	354.998	9.083	0.01538	3.425	17.04	60.00	2644
6022	0.181	0.03009	368.939	10.148	0.01666	1.842	5.04	60.00	1565

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
6024	0.181	0.03009	368.938	10.160	0.01667	1.840	12.24	60.00	1568
6026	0.181	0.03456	369.076	10.132	0.01663	2.118	12.24	60.00	1791
6028	0.181	0.03456	369.082	10.132	0.01658	2.124	12.24	60.00	1796
6030	0.181	0.03933	369.229	10.127	0.01658	2.415	9.84	60.00	2037
6032	0.181	0.03933	369.230	10.115	0.01656	2.419	7.44	60.00	2035
6034	0.180	0.04441	369.383	10.075	0.01658	2.728	9.84	60.00	2271
6036	0.180	0.04441	369.386	10.063	0.01653	2.735	24.24	60.00	2271
6038	0.180	0.04981	369.554	10.046	0.01651	3.071	19.44	60.00	2536
6040	0.180	0.04981	369.557	10.046	0.01653	3.066	19.44	60.00	2532
6042	0.287	0.03009	368.935	16.592	0.01669	1.827	14.64	60.00	4718
6044	0.287	0.03009	368.940	16.572	0.01670	1.827	9.84	60.00	4703
6046	0.287	0.03456	369.070	16.565	0.01668	2.097	14.64	60.00	5386
6048	0.286	0.03456	369.074	16.533	0.01673	2.091	12.24	60.00	5346
6050	0.286	0.03933	369.210	16.494	0.01676	2.373	7.44	60.00	6024
6052	0.286	0.03933	369.207	16.500	0.01679	2.369	12.24	60.00	6020
6054	0.286	0.04441	369.357	16.485	0.01680	2.671	9.84	60.00	6759
6056	0.286	0.04442	369.354	16.479	0.01683	2.666	5.04	60.00	6742
6058	0.286	0.04982	369.509	16.464	0.01693	2.968	5.04	60.00	7476
6060	0.286	0.04982	369.507	16.476	0.01694	2.966	5.04	60.00	7485
6062	0.387	0.03008	368.884	23.078	0.01743	1.734	7.44	60.00	9892
6064	0.387	0.03008	368.888	23.065	0.01741	1.736	7.44	60.00	9887
6066	0.387	0.03455	369.016	23.039	0.01741	1.989	5.04	60.00	11279
6068	0.387	0.03455	369.014	23.040	0.01739	1.991	7.44	60.00	11295
6070	0.387	0.03932	369.141	23.028	0.01752	2.244	5.04	60.00	12690
6072	0.387	0.03932	369.147	23.041	0.01753	2.243	2.64	60.00	12699
6074	0.387	0.04441	369.281	23.028	0.01760	2.515	2.64	60.00	14197
6076	0.388	0.04440	369.282	23.068	0.01757	2.519	5.04	60.00	14281
6078	0.388	0.04980	369.424	23.062	0.01768	2.801	2.64	60.00	15839
6080	0.388	0.04980	369.420	23.083	0.01768	2.800	2.64	60.00	15870
6082	0.499	0.03008	368.838	30.951	0.01821	1.631	5.04	60.00	19769
6084	0.500	0.03008	368.840	30.994	0.01811	1.640	9.84	60.00	19946
6086	0.500	0.03455	368.960	31.021	0.01817	1.868	2.64	60.00	22730
6088	0.501	0.03455	368.959	31.058	0.01822	1.863	2.64	60.00	22745
6090	0.501	0.03933	369.070	31.035	0.01835	2.095	2.64	60.00	25486
6092	0.500	0.03932	369.069	30.991	0.01837	2.093	2.64	60.00	25363
6094	0.500	0.04441	369.194	30.944	0.01846	2.341	2.64	60.00	28202
6096	0.499	0.04441	369.195	30.900	0.01837	2.353	2.64	60.00	28234
6098	0.499	0.04981	369.319	30.845	0.01857	2.597	2.64	60.00	30965
6100	0.498	0.04980	369.322	30.808	0.01854	2.602	2.64	60.00	30919
6122	0.531	0.03009	368.786	33.319	0.01860	1.587	14.64	60.00	23479
6124	0.531	0.03009	368.800	33.324	0.01833	1.610	2.64	60.00	23813
6126	0.531	0.03456	368.912	33.313	0.01828	1.843	2.64	60.00	27193
6128	0.532	0.03456	368.922	33.410	0.01805	1.865	12.24	60.00	27729
6130	0.533	0.03933	369.040	33.466	0.01823	2.088	2.64	60.00	31144
6132	0.534	0.03933	369.032	33.490	0.01828	2.083	2.64	60.00	31126
6134	0.534	0.04441	369.150	33.464	0.01843	2.320	2.64	60.00	34526
6136	0.534	0.04441	369.147	33.464	0.01847	2.314	2.64	60.00	34451
6138	0.534	0.04981	369.282	33.435	0.01854	2.571	2.64	60.00	38101

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6140	0.533	0.04981	369.274	33.429	0.01861	2.561	2.64	60.00	37944
7022	0.225	0.02897	383.795	12.136	0.01783	1.655	14.64	60.00	1794
7024	0.226	0.02897	383.795	12.221	0.01779	1.659	17.04	60.00	1826
7026	0.227	0.03327	383.915	12.251	0.01781	1.903	12.24	60.00	2102
7028	0.227	0.03327	383.916	12.297	0.01782	1.902	14.64	60.00	2119
7030	0.228	0.03787	384.047	12.331	0.01782	2.163	9.84	60.00	2422
7032	0.229	0.03787	384.047	12.377	0.01779	2.166	19.44	60.00	2446
7034	0.229	0.04276	384.185	12.400	0.01774	2.452	31.44	60.00	2775
7036	0.230	0.04276	384.189	12.434	0.01776	2.449	9.84	60.00	2789
7038	0.231	0.04796	384.333	12.486	0.01777	2.743	9.84	60.00	3148
7040	0.231	0.04796	384.334	12.508	0.01780	2.739	7.44	60.00	3156
7042	0.320	0.02897	383.776	17.688	0.01790	1.643	9.84	60.00	4164
7044	0.319	0.02897	383.776	17.676	0.01801	1.632	7.44	60.00	4131
7046	0.319	0.03327	383.901	17.663	0.01788	1.887	12.24	60.00	4761
7048	0.319	0.03327	383.904	17.669	0.01788	1.886	9.84	60.00	4762
7050	0.319	0.03787	384.028	17.631	0.01794	2.138	12.24	60.00	5364
7052	0.319	0.03787	384.024	17.620	0.01798	2.132	14.64	60.00	5343
7054	0.319	0.04276	384.160	17.623	0.01797	2.407	12.24	60.00	6025
7056	0.319	0.04276	384.159	17.624	0.01801	2.401	9.84	60.00	6010
7058	0.319	0.04796	384.295	17.627	0.01809	2.678	9.84	60.00	6697
7060	0.319	0.04796	384.300	17.603	0.01808	2.680	7.44	60.00	6681
7062	0.421	0.02897	383.750	23.962	0.01841	1.585	7.44	60.00	8241
7064	0.421	0.02897	383.743	23.918	0.01849	1.579	9.84	60.00	8170
7066	0.421	0.03327	383.858	23.907	0.01846	1.812	7.44	60.00	9357
7068	0.421	0.03327	383.864	23.907	0.01842	1.816	5.04	60.00	9374
7070	0.420	0.03787	383.978	23.865	0.01850	2.054	5.04	60.00	10543
7072	0.420	0.03787	383.982	23.871	0.01851	2.052	7.44	60.00	10541
7074	0.420	0.04276	384.109	23.828	0.01854	2.309	7.44	60.00	11792
7076	0.419	0.04276	384.110	23.803	0.01856	2.307	5.04	60.00	11749
7078	0.419	0.04796	384.245	23.772	0.01861	2.574	5.04	60.00	13045
7080	0.419	0.04796	384.236	23.779	0.01869	2.563	5.04	60.00	13002
7082	0.538	0.02897	383.708	31.649	0.01914	1.505	7.44	60.00	15686
7084	0.538	0.02897	383.709	31.656	0.01904	1.512	2.64	60.00	15770
7086	0.538	0.03327	383.812	31.628	0.01926	1.711	2.64	60.00	17778
7088	0.538	0.03327	383.813	31.655	0.01918	1.719	5.04	60.00	17896
7090	0.538	0.03787	383.927	31.640	0.01919	1.946	5.04	60.00	20209
7092	0.539	0.03786	383.927	31.688	0.01923	1.942	2.64	60.00	20245
7094	0.540	0.04276	384.042	31.700	0.01928	2.178	2.64	60.00	22693
7096	0.540	0.04276	384.042	31.761	0.01931	2.175	2.64	60.00	22768
7098	0.541	0.04796	384.171	31.792	0.01929	2.430	19.44	60.00	25464
7100	0.542	0.04796	384.162	31.827	0.01936	2.422	2.64	60.00	25449
8042	0.206	0.02797	398.146	10.606	0.01887	1.512	5.04	60.00	1064
8044	0.204	0.02797	398.144	10.510	0.01897	1.505	7.44	60.00	1038
8048	0.200	0.03213	398.258	10.308	0.01888	1.736	9.84	60.00	1147
8050	0.199	0.03656	398.388	10.218	0.01874	1.990	12.24	60.00	1289
8052	0.197	0.03656	398.390	10.127	0.01875	1.989	7.44	60.00	1264
8054	0.195	0.04129	398.520	10.022	0.01873	2.248	9.84	60.00	1395
8056	0.193	0.04129	398.529	9.936	0.01872	2.250	5.04	60.00	1370

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8058	0.192	0.04631	398.665	9.852	0.01865	2.532	17.04	60.00	1512
8060	0.191	0.04631	398.674	9.788	0.01867	2.529	9.84	60.00	1489
8062	0.311	0.02797	398.172	16.413	0.01886	1.508	7.44	60.00	2776
8064	0.310	0.02797	398.172	16.334	0.01885	1.509	7.44	60.00	2748
8066	0.310	0.03213	398.284	16.317	0.01891	1.727	9.84	60.00	3134
8068	0.310	0.03213	398.289	16.306	0.01882	1.736	12.24	60.00	3144
8070	0.310	0.03656	398.391	16.312	0.01922	1.933	5.04	60.00	3501
8072	0.310	0.03656	398.393	16.345	0.01910	1.944	12.24	60.00	3538
8074	0.310	0.04128	398.523	16.327	0.01908	2.196	7.44	60.00	3981
8076	0.309	0.04128	398.514	16.283	0.01913	2.190	14.64	60.00	3947
8078	0.309	0.04630	398.651	16.276	0.01907	2.462	14.64	60.00	4426
8080	0.309	0.04630	398.652	16.253	0.01913	2.456	12.24	60.00	4401
8082	0.404	0.02797	398.163	21.756	0.01943	1.458	5.04	60.00	5121
8084	0.403	0.02797	398.170	21.697	0.01927	1.470	24.24	60.00	5130
8086	0.402	0.03212	398.274	21.625	0.01935	1.680	7.44	60.00	5810
8088	0.402	0.03212	398.271	21.614	0.01940	1.675	5.04	60.00	5786
8090	0.401	0.03656	398.396	21.558	0.01928	1.915	26.64	60.00	6568
8092	0.401	0.03655	398.390	21.540	0.01931	1.913	9.84	60.00	6548
8094	0.401	0.04128	398.503	21.503	0.01944	2.143	5.04	60.00	7295
8096	0.401	0.04128	398.509	21.526	0.01942	2.145	9.84	60.00	7322
8098	0.400	0.04630	398.639	21.487	0.01947	2.396	7.44	60.00	8132
8100	0.400	0.04630	398.643	21.475	0.01939	2.406	14.64	60.00	8156
8102	0.513	0.02797	398.170	28.328	0.01948	1.443	19.44	60.00	9518
8104	0.512	0.02797	398.164	28.248	0.01964	1.431	7.44	60.00	9375
8106	0.511	0.03212	398.270	28.169	0.01965	1.640	7.44	60.00	10654
8108	0.510	0.03212	398.274	28.107	0.01963	1.641	7.44	60.00	10605
8110	0.510	0.03656	398.372	28.072	0.01978	1.850	7.44	60.00	11902
8112	0.510	0.03656	398.375	28.071	0.01979	1.849	9.84	60.00	11895
8114	0.509	0.04128	398.484	27.998	0.01988	2.073	5.04	60.00	13239
8116	0.509	0.04128	398.490	27.998	0.01980	2.082	5.04	60.00	13292
8118	0.508	0.04630	398.604	27.974	0.01995	2.312	5.04	60.00	14710
8120	0.508	0.04630	398.603	27.968	0.01995	2.312	2.64	60.00	14702
9022	0.227	0.03527	413.493	11.236	0.02004	1.795	7.44	60.00	1247
9024	0.227	0.03527	413.493	11.226	0.02005	1.795	9.84	60.00	1244
9026	0.227	0.03982	413.616	11.222	0.01996	2.035	9.84	60.00	1408
9028	0.226	0.03983	413.607	11.212	0.02007	2.024	5.04	60.00	1398
9030	0.226	0.04467	413.729	11.192	0.02005	2.271	7.44	60.00	1561
9032	0.226	0.04467	413.741	11.197	0.01991	2.287	14.64	60.00	1573
9034	0.226	0.04978	413.867	11.193	0.01996	2.541	7.44	60.00	1745
9036	0.226	0.04978	413.861	11.194	0.02004	2.532	7.44	60.00	1739
9038	0.226	0.05518	414.009	11.199	0.01996	2.816	7.44	60.00	1934
9040	0.226	0.05518	414.001	11.199	0.01995	2.818	7.44	60.00	1935
9042	0.316	0.03527	413.488	15.909	0.02025	1.772	7.44	60.00	2629
9044	0.316	0.03527	413.485	15.904	0.02024	1.773	12.24	60.00	2628
9046	0.316	0.03983	413.601	15.882	0.02022	2.003	7.44	60.00	2957
9048	0.315	0.03982	413.599	15.866	0.02024	2.001	14.64	60.00	2947
9050	0.315	0.04467	413.722	15.861	0.02021	2.246	9.84	60.00	3301
9052	0.315	0.04467	413.721	15.861	0.02028	2.239	17.04	60.00	3291

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9054	0.315	0.04978	413.843	15.834	0.02026	2.495	7.44	60.00	3650
9056	0.315	0.04978	413.853	15.860	0.02017	2.506	17.04	60.00	3679
9058	0.315	0.05518	413.984	15.854	0.02021	2.772	14.64	60.00	4061
9060	0.315	0.05518	413.981	15.838	0.02027	2.763	7.44	60.00	4040
9062	0.416	0.03527	413.464	21.358	0.02063	1.732	7.44	60.00	4986
9064	0.416	0.03527	413.458	21.331	0.02068	1.728	9.84	60.00	4961
9066	0.415	0.03983	413.574	21.301	0.02049	1.968	12.24	60.00	5622
9068	0.415	0.03982	413.579	21.306	0.02057	1.960	17.04	60.00	5602
9070	0.415	0.04466	413.691	21.249	0.02060	2.193	5.04	60.00	6223
9072	0.414	0.04467	413.690	21.215	0.02063	2.189	7.44	60.00	6192
9074	0.414	0.04978	413.802	21.203	0.02075	2.423	7.44	60.00	6835
9076	0.414	0.04978	413.808	21.202	0.02074	2.424	9.84	60.00	6838
9078	0.414	0.05518	413.931	21.177	0.02080	2.677	7.44	60.00	7522
9080	0.414	0.05518	413.935	21.199	0.02077	2.680	9.84	60.00	7548
9082	0.527	0.03527	413.437	27.619	0.02087	1.701	12.24	60.00	8914
9084	0.527	0.03527	413.436	27.613	0.02094	1.695	5.04	60.00	8882
9086	0.526	0.03983	413.543	27.551	0.02097	1.908	7.44	60.00	9933
9088	0.526	0.03983	413.543	27.562	0.02087	1.916	5.04	60.00	9986
9090	0.525	0.04467	413.656	27.506	0.02090	2.142	7.44	60.00	11093
9092	0.524	0.04467	413.658	27.459	0.02092	2.140	5.04	60.00	11041
9094	0.525	0.04978	413.769	27.466	0.02105	2.365	5.04	60.00	12195
9096	0.525	0.04978	413.767	27.472	0.02103	2.368	5.04	60.00	12217
9098	0.525	0.05519	413.892	27.466	0.02106	2.616	7.44	60.00	13470
9100	0.525	0.05518	413.894	27.460	0.02102	2.620	5.04	60.00	13484
10022	0.222	0.03412	428.099	10.575	0.02117	1.645	12.24	60.00	887
10024	0.222	0.03412	428.100	10.560	0.02116	1.645	12.24	60.00	885
10026	0.222	0.03853	428.204	10.587	0.02126	1.850	7.44	60.00	999
10028	0.223	0.03853	428.211	10.616	0.02113	1.860	5.04	60.00	1010
10030	0.224	0.04321	428.324	10.647	0.02114	2.086	9.84	60.00	1139
10032	0.224	0.04321	428.314	10.657	0.02119	2.080	5.04	60.00	1138
10034	0.224	0.04816	428.440	10.649	0.02110	2.328	21.84	60.00	1271
10036	0.225	0.04816	428.441	10.693	0.02113	2.324	5.04	60.00	1280
10038	0.225	0.05338	428.563	10.709	0.02115	2.573	7.44	60.00	1420
10040	0.226	0.05338	428.570	10.744	0.02111	2.579	7.44	60.00	1433
10042	0.324	0.03412	428.087	15.652	0.02136	1.627	17.04	60.00	2044
10044	0.323	0.03412	428.092	15.626	0.02133	1.630	7.44	60.00	2040
10046	0.323	0.03853	428.194	15.612	0.02140	1.833	9.84	60.00	2288
10048	0.323	0.03853	428.192	15.602	0.02136	1.836	5.04	60.00	2289
10050	0.323	0.04321	428.305	15.607	0.02144	2.051	9.84	60.00	2556
10052	0.323	0.04321	428.301	15.617	0.02144	2.051	12.24	60.00	2559
10054	0.323	0.04816	428.422	15.612	0.02135	2.294	17.04	60.00	2858
10056	0.324	0.04816	428.427	15.637	0.02125	2.305	17.04	60.00	2882
10058	0.324	0.05338	428.536	15.638	0.02137	2.539	9.84	60.00	3171
10060	0.324	0.05338	428.535	15.628	0.02142	2.533	12.24	60.00	3159
10062	0.429	0.03412	428.067	21.086	0.02179	1.590	7.44	60.00	3872
10064	0.429	0.03412	428.074	21.096	0.02159	1.605	7.44	60.00	3912
10066	0.428	0.03853	428.164	21.064	0.02180	1.793	17.04	60.00	4353
10068	0.428	0.03853	428.168	21.058	0.02178	1.795	7.44	60.00	4354

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
10070	0.428	0.04321	428.272	21.041	0.02183	2.007	17.04	60.00	4854
10072	0.428	0.04321	428.275	21.041	0.02173	2.015	12.24	60.00	4875
10074	0.428	0.04816	428.384	21.034	0.02181	2.236	9.84	60.00	5400
10076	0.429	0.04816	428.380	21.077	0.02185	2.232	19.44	60.00	5414
10078	0.427	0.05338	428.502	20.975	0.02177	2.480	9.84	60.00	5945
10080	0.428	0.05338	428.503	21.006	0.02182	2.474	7.44	60.00	5951
10082	0.511	0.03412	428.043	25.479	0.02206	1.565	21.84	60.00	5869
10084	0.511	0.03412	428.033	25.513	0.02231	1.548	14.64	60.00	5823
10086	0.511	0.03853	428.139	25.504	0.02212	1.760	7.44	60.00	6609
10088	0.511	0.03853	428.143	25.477	0.02209	1.762	14.64	60.00	6603
10090	0.512	0.04321	428.246	25.507	0.02205	1.977	9.84	60.00	7418
10092	0.512	0.04321	428.240	25.518	0.02226	1.958	5.04	60.00	7357
10094	0.511	0.04815	428.352	25.488	0.02224	2.182	7.44	60.00	8165
10096	0.511	0.04816	428.352	25.477	0.02223	2.183	7.44	60.00	8162
10098	0.511	0.05338	428.461	25.468	0.02228	2.411	5.04	60.00	8997
10100	0.512	0.05338	428.465	25.522	0.02224	2.415	7.44	60.00	9055
11022	0.250	0.03307	442.758	11.492	0.02234	1.511	5.04	60.00	865
11024	0.248	0.03307	442.753	11.431	0.02245	1.503	2.64	60.00	850
11026	0.249	0.03735	442.856	11.437	0.02215	1.720	5.04	60.00	974
11028	0.248	0.03735	442.851	11.418	0.02242	1.700	5.04	60.00	958
11030	0.248	0.04188	442.958	11.410	0.02231	1.916	7.44	60.00	1078
11032	0.248	0.04188	442.962	11.406	0.02217	1.927	14.64	60.00	1083
11036	0.248	0.04668	443.073	11.421	0.02223	2.142	7.44	60.00	1207
11040	0.248	0.05174	443.193	11.418	0.02221	2.376	7.44	60.00	1336
11042	0.394	0.03307	442.754	18.486	0.02262	1.488	5.04	60.00	2378
11044	0.393	0.03307	442.750	18.427	0.02264	1.487	9.84	60.00	2360
11046	0.392	0.03734	442.856	18.397	0.02249	1.689	9.84	60.00	2669
11048	0.392	0.03735	442.850	18.397	0.02250	1.688	7.44	60.00	2667
11050	0.392	0.04189	442.954	18.392	0.02251	1.892	9.84	60.00	2985
11052	0.392	0.04188	442.948	18.402	0.02257	1.887	12.24	60.00	2980
11054	0.393	0.04667	443.066	18.406	0.02247	2.111	7.44	60.00	3332
11056	0.393	0.04668	443.064	18.431	0.02255	2.104	19.44	60.00	3331
11058	0.394	0.05174	443.182	18.450	0.02247	2.338	12.24	60.00	3707
11060	0.394	0.05174	443.182	18.480	0.02243	2.343	7.44	60.00	3727
11062	0.526	0.03307	442.728	25.146	0.02347	1.429	19.44	60.00	4543
11064	0.525	0.03307	442.730	25.136	0.02335	1.437	17.04	60.00	4563
11066	0.525	0.03734	442.826	25.103	0.02323	1.628	38.64	60.00	5152
11068	0.525	0.03734	442.822	25.098	0.02334	1.621	14.64	60.00	5127
11070	0.525	0.04188	442.931	25.085	0.02308	1.836	12.24	60.00	5794
11072	0.525	0.04189	442.917	25.076	0.02335	1.815	5.04	60.00	5725
11074	0.525	0.04667	443.022	25.078	0.02335	2.020	19.44	60.00	6367
11076	0.525	0.04667	443.026	25.088	0.02328	2.027	7.44	60.00	6393
11078	0.525	0.05174	443.123	25.102	0.02344	2.228	7.44	60.00	7031
11080	0.525	0.05174	443.133	25.091	0.02324	2.247	14.64	60.00	7083
12022	0.290	0.03208	457.432	12.950	0.02413	1.358	21.84	60.00	894
12024	0.290	0.03208	457.430	12.941	0.02404	1.362	5.04	60.00	896
12026	0.290	0.03623	457.517	12.933	0.02401	1.540	9.84	60.00	1011
12028	0.290	0.03623	457.527	12.933	0.02377	1.555	9.84	60.00	1021

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
12030	0.291	0.04063	457.621	12.971	0.02386	1.737	9.84	60.00	1146
12032	0.291	0.04063	457.615	12.985	0.02393	1.732	7.44	60.00	1146
12034	0.291	0.04528	457.712	12.973	0.02398	1.927	9.84	60.00	1271
12036	0.291	0.04528	457.722	12.964	0.02373	1.947	36.24	60.00	1282
12038	0.291	0.05019	457.827	12.960	0.02378	2.152	9.84	60.00	1415
12040	0.291	0.05019	457.827	12.965	0.02380	2.151	12.24	60.00	1415
12044	0.478	0.03208	457.419	21.799	0.02449	1.333	19.44	60.00	2715
12046	0.478	0.03623	457.505	21.804	0.02447	1.505	9.84	60.00	3066
12048	0.477	0.03623	457.504	21.765	0.02450	1.504	7.44	60.00	3050
12050	0.477	0.04063	457.595	21.770	0.02448	1.687	7.44	60.00	3420
12052	0.477	0.04063	457.592	21.755	0.02447	1.688	5.04	60.00	3417
12054	0.477	0.04528	457.688	21.759	0.02443	1.883	7.44	60.00	3810
12056	0.478	0.04528	457.691	21.774	0.02443	1.882	5.04	60.00	3815
12058	0.478	0.05019	457.789	21.778	0.02430	2.096	9.84	60.00	4247
12060	0.478	0.05020	457.792	21.787	0.02436	2.091	7.44	60.00	4240
13024	0.258	0.03085	477.461	10.948	0.02542	1.240	7.44	60.00	495
13026	0.260	0.03484	477.543	10.998	0.02529	1.407	5.04	60.00	566
13028	0.261	0.03484	477.543	11.046	0.02541	1.400	5.04	60.00	569
13030	0.263	0.03908	477.624	11.131	0.02544	1.569	12.24	60.00	647
13032	0.264	0.03908	477.631	11.187	0.02526	1.580	7.44	60.00	659
13034	0.265	0.04355	477.716	11.233	0.02535	1.754	7.44	60.00	737
13036	0.267	0.04355	477.711	11.329	0.02533	1.756	5.04	60.00	751
13038	0.269	0.04828	477.813	11.387	0.02533	1.946	7.44	60.00	841
13040	0.270	0.04827	477.801	11.444	0.02548	1.934	7.44	60.00	845
13042	0.432	0.03086	477.415	18.607	0.02631	1.196	5.04	60.00	1475
13044	0.433	0.03085	477.420	18.669	0.02616	1.203	7.44	60.00	1494
13046	0.434	0.03484	477.499	18.729	0.02622	1.355	5.04	60.00	1693
13048	0.434	0.03484	477.503	18.733	0.02624	1.354	5.04	60.00	1693
13050	0.436	0.03908	477.594	18.779	0.02591	1.537	5.04	60.00	1931
13052	0.437	0.03908	477.593	18.855	0.02598	1.532	12.24	60.00	1942
13054	0.439	0.04355	477.684	18.950	0.02585	1.716	7.44	60.00	2197
13056	0.441	0.04355	477.690	19.036	0.02589	1.713	9.84	60.00	2215
13058	0.442	0.04827	477.783	19.081	0.02577	1.907	12.24	60.00	2476
13060	0.444	0.04827	477.779	19.162	0.02589	1.898	14.64	60.00	2487
13062	0.624	0.03086	477.434	27.437	0.02642	1.187	7.44	60.00	3435
13064	0.626	0.03085	477.426	27.527	0.02646	1.185	12.24	60.00	3455
13066	0.627	0.03484	477.514	27.605	0.02628	1.346	7.44	60.00	3946
13068	0.630	0.03484	477.508	27.718	0.02641	1.339	9.84	60.00	3962
13070	0.632	0.03908	477.596	27.815	0.02620	1.513	9.84	60.00	4507
13072	0.633	0.03908	477.588	27.872	0.02639	1.502	21.84	60.00	4496
13074	0.636	0.04355	477.678	27.988	0.02630	1.678	9.84	60.00	5065
13076	0.637	0.04355	477.687	28.058	0.02622	1.683	12.24	60.00	5109
13078	0.639	0.04827	477.772	28.141	0.02635	1.854	7.44	60.00	5663
13080	0.641	0.04827	477.776	28.207	0.02619	1.865	9.84	60.00	5727
14022	0.270	0.02968	497.090	10.963	0.02730	1.111	9.84	60.00	388
14024	0.273	0.02968	497.096	11.087	0.02688	1.128	5.04	60.00	404
14026	0.276	0.03352	497.161	11.223	0.02732	1.254	7.44	60.00	460
14028	0.279	0.03352	497.153	11.343	0.02766	1.238	7.44	60.00	465

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	ΔT_a / K	t_s / s	t_e / s	Ra
14030	0.283	0.03759	497.236	11.483	0.02724	1.410	2.64	60.00	542
14032	0.285	0.03760	497.229	11.558	0.02751	1.396	2.64	60.00	545
14034	0.288	0.04190	497.318	11.693	0.02728	1.569	9.84	60.00	627
14036	0.290	0.04190	497.326	11.763	0.02685	1.593	19.44	60.00	645
14042	0.488	0.02966	497.203	20.171	0.02745	1.102	5.04	60.00	1401
14046	0.493	0.03348	497.271	20.388	0.02777	1.229	7.44	60.00	1599
14048	0.496	0.03349	497.276	20.530	0.02763	1.236	7.44	60.00	1632
14050	0.499	0.03755	497.366	20.660	0.02731	1.401	9.84	60.00	1874
14052	0.502	0.03755	497.356	20.785	0.02758	1.387	7.44	60.00	1880
14054	0.506	0.04185	497.434	20.941	0.02760	1.545	5.04	60.00	2126
14056	0.509	0.04185	497.441	21.079	0.02731	1.561	9.84	60.00	2179
14058	0.513	0.04639	497.521	21.218	0.02761	1.711	9.84	60.00	2421
14060	0.516	0.04639	497.522	21.378	0.02751	1.716	7.44	60.00	2469

Table S5. Thermal conductivity of vapor R1336mzz(Z) from transient measurements with a single platinum hot wire at temperatures from (326 to 425) K.

Run Point	P_e / MPa	q / W·m^{-1}	T_e / K	ρ_e / kg·m^{-3}	λ_e / W·m^{-1}·K^{-1}	STAT	T_i / K
2061	0.132	0.02490	327.376	8.360	0.01373	0.011	325.687
2063	0.132	0.02490	327.365	8.370	0.01379	0.011	325.687
2065	0.132	0.02917	327.667	8.380	0.01381	0.009	325.686
2067	0.132	0.02917	327.690	8.390	0.01381	0.009	325.691
2069	0.132	0.03385	328.016	8.380	0.01384	0.008	325.688
2071	0.132	0.03385	328.013	8.390	0.01385	0.007	325.682
2073	0.132	0.03888	328.348	8.390	0.01389	0.006	325.681
2075	0.132	0.03888	328.345	8.380	0.01386	0.006	325.679
2077	0.132	0.04425	328.720	8.370	0.01391	0.006	325.675
2079	0.132	0.04425	328.715	8.370	0.01393	0.005	325.676
2081	0.160	0.02490	327.371	10.300	0.01395	0.034	325.688
2083	0.160	0.02490	327.372	10.290	0.01361	0.011	325.688
2085	0.159	0.02917	327.668	10.250	0.01361	0.009	325.692
2087	0.159	0.02917	327.655	10.240	0.01369	0.009	325.691
2089	0.159	0.03385	327.973	10.220	0.01367	0.007	325.689
2091	0.159	0.03385	327.980	10.200	0.01368	0.007	325.691
2093	0.159	0.03888	328.314	10.170	0.01367	0.015	325.686
2095	0.159	0.03888	328.312	10.170	0.01370	0.006	325.688
2097	0.158	0.04425	328.666	10.150	0.01379	0.005	325.681
2099	0.158	0.04425	328.659	10.140	0.01379	0.005	325.682
2101	0.183	0.02490	327.266	11.900	0.01332	0.011	325.642
2103	0.182	0.02490	327.249	11.860	0.01336	0.011	325.616
2105	0.182	0.02917	327.504	11.830	0.01340	0.009	325.589
2107	0.182	0.02917	327.450	11.820	0.01340	0.009	325.552
2109	0.182	0.03385	327.717	11.810	0.01344	0.007	325.525
2111	0.182	0.03385	327.683	11.810	0.01341	0.007	325.501
2113	0.182	0.03889	328.075	11.820	0.01347	0.006	325.494
2115	0.182	0.03889	328.060	11.840	0.01346	0.006	325.493
2117	0.182	0.04426	328.428	11.820	0.01353	0.005	325.503
2119	0.182	0.04426	328.446	11.820	0.01354	0.005	325.518
3061	0.161	0.02396	340.565	9.900	0.01473	0.012	339.056
3063	0.162	0.02396	340.569	9.910	0.01453	0.012	339.055
3065	0.161	0.02807	340.824	9.890	0.01475	0.010	339.057
3067	0.161	0.02807	340.825	9.890	0.01474	0.009	339.059
3069	0.162	0.03257	341.114	9.890	0.01479	0.008	339.057
3071	0.162	0.03257	341.115	9.890	0.01476	0.008	339.052
3073	0.162	0.03741	341.415	9.910	0.01480	0.006	339.052
3075	0.162	0.03740	341.416	9.880	0.01479	0.006	339.055
3077	0.162	0.04257	341.744	9.880	0.01483	0.005	339.057
3079	0.162	0.04257	341.747	9.900	0.01484	0.005	339.057
3081	0.237	0.02396	340.488	14.990	0.01446	0.011	339.054
3083	0.237	0.02396	340.480	14.980	0.01447	0.011	339.046
3085	0.236	0.02807	340.733	14.940	0.01446	0.009	339.050
3087	0.236	0.02807	340.729	14.920	0.01445	0.009	339.049
3089	0.236	0.03257	341.019	14.900	0.01458	0.008	339.056
3091	0.236	0.03257	341.010	14.880	0.01448	0.007	339.048

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
3093	0.235	0.03740	341.314	14.830	0.01457	0.006	339.051
3095	0.236	0.03740	341.311	14.840	0.01459	0.006	339.051
3097	0.236	0.04257	341.631	14.830	0.01460	0.006	339.054
3099	0.236	0.04257	341.626	14.830	0.01461	0.005	339.054
3103	0.206	0.02396	340.499	12.850	0.01455	0.012	339.049
3105	0.206	0.02807	340.768	12.860	0.01455	0.009	339.046
3109	0.207	0.03257	341.032	12.930	0.01454	0.008	339.043
3111	0.208	0.03256	341.052	12.970	0.01460	0.007	339.047
3115	0.209	0.03741	341.340	13.030	0.01461	0.006	339.043
3117	0.210	0.04257	341.651	13.040	0.01467	0.005	339.044
3121	0.184	0.02396	340.559	11.410	0.01470	0.012	339.079
3123	0.185	0.02396	340.553	11.420	0.01467	0.012	339.079
3125	0.185	0.02807	340.821	11.440	0.01466	0.009	339.076
3127	0.185	0.02807	340.834	11.460	0.01462	0.009	339.079
3129	0.186	0.03257	341.099	11.480	0.01465	0.007	339.079
3131	0.186	0.03256	341.106	11.490	0.01467	0.007	339.080
3133	0.186	0.03740	341.406	11.490	0.01469	0.006	339.075
3135	0.187	0.03740	341.406	11.520	0.01468	0.006	339.079
3137	0.187	0.04257	341.719	11.530	0.01471	0.005	339.077
3139	0.187	0.04257	341.723	11.560	0.01472	0.005	339.077
4021	0.105	0.02607	312.079	6.970	0.01258	0.011	310.120
4023	0.105	0.02607	312.087	6.980	0.01252	0.011	310.119
4025	0.105	0.03054	312.428	6.980	0.01259	0.009	310.110
4027	0.105	0.03054	312.406	7.000	0.01260	0.009	310.103
4029	0.105	0.03544	312.768	7.000	0.01263	0.007	310.097
4031	0.106	0.03544	312.758	7.010	0.01264	0.007	310.084
4033	0.106	0.04070	313.143	7.010	0.01271	0.007	310.075
4035	0.106	0.04070	313.116	7.020	0.01269	0.006	310.058
4037	0.106	0.04633	313.517	7.010	0.01275	0.006	310.039
4039	0.106	0.04633	313.490	7.020	0.01276	0.006	310.018
4041	0.106	0.02608	311.925	7.090	0.01240	0.011	309.942
4043	0.106	0.02608	311.871	7.090	0.01238	0.011	309.922
4045	0.106	0.03055	312.211	7.080	0.01244	0.009	309.910
4047	0.106	0.03055	312.176	7.080	0.01244	0.009	309.894
4049	0.106	0.03545	312.525	7.070	0.01247	0.007	309.879
4051	0.106	0.03545	312.509	7.080	0.01250	0.007	309.867
4053	0.106	0.04072	312.895	7.060	0.01256	0.006	309.856
4055	0.106	0.04072	312.880	7.070	0.01258	0.006	309.852
4057	0.107	0.04635	313.298	7.060	0.01266	0.006	309.841
4059	0.106	0.04636	313.340	7.050	0.01265	0.006	309.836
4101	0.106	0.02608	311.937	7.090	0.01234	0.011	309.972
4103	0.107	0.02608	311.910	7.120	0.01231	0.011	309.955
4105	0.107	0.03055	312.238	7.120	0.01240	0.009	309.931
4107	0.107	0.03055	312.191	7.120	0.01238	0.009	309.909
4109	0.107	0.03545	312.540	7.110	0.01246	0.008	309.885
4111	0.106	0.03545	312.507	7.060	0.01248	0.007	309.858
4113	0.107	0.04072	312.877	7.070	0.01253	0.007	309.837
4115	0.107	0.04072	312.835	7.090	0.01252	0.007	309.813

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
4117	0.107	0.04636	313.319	7.090	0.01258	0.006	309.802
4119	0.107	0.04636	313.295	7.090	0.01256	0.006	309.786
5001	0.409	0.03128	354.954	26.120	0.01528	0.008	353.314
5003	0.409	0.03128	354.954	26.110	0.01521	0.007	353.318
5005	0.409	0.03593	355.202	26.090	0.01530	0.006	353.317
5007	0.409	0.03592	355.203	26.090	0.01533	0.006	353.320
5009	0.409	0.04088	355.465	26.060	0.01545	0.006	353.319
5011	0.409	0.04089	355.454	26.070	0.01543	0.006	353.313
5013	0.409	0.04617	355.745	26.040	0.01552	0.005	353.321
5015	0.409	0.04617	355.742	26.040	0.01552	0.005	353.319
5017	0.409	0.05178	356.034	26.000	0.01564	0.005	353.317
5019	0.409	0.05178	356.040	26.000	0.01564	0.005	353.317
5021	0.365	0.03128	354.954	22.860	0.01566	0.008	353.302
5023	0.365	0.03128	354.975	22.890	0.01567	0.007	353.297
5025	0.365	0.03593	355.229	22.890	0.01563	0.006	353.299
5027	0.365	0.03593	355.229	22.890	0.01563	0.006	353.299
5029	0.366	0.04089	355.494	22.890	0.01571	0.005	353.298
5031	0.366	0.04089	355.504	22.910	0.01569	0.005	353.305
5033	0.366	0.04618	355.782	22.900	0.01575	0.005	353.305
5035	0.366	0.04617	355.784	22.890	0.01575	0.005	353.306
5037	0.366	0.05179	356.081	22.880	0.01581	0.005	353.301
5039	0.367	0.05178	356.086	22.900	0.01579	0.004	353.304
5041	0.305	0.03128	355.028	18.710	0.01550	0.008	353.306
5043	0.307	0.03128	355.038	18.790	0.01553	0.008	353.309
5045	0.308	0.03593	355.279	18.840	0.01566	0.006	353.304
5047	0.308	0.03593	355.283	18.890	0.01564	0.006	353.306
5049	0.310	0.04089	355.569	18.950	0.01569	0.005	353.308
5051	0.310	0.04089	355.568	19.010	0.01571	0.005	353.309
5053	0.311	0.04617	355.838	19.030	0.01576	0.005	353.308
5055	0.312	0.04617	355.839	19.070	0.01573	0.005	353.310
5057	0.312	0.05178	356.147	19.080	0.01579	0.004	353.311
5059	0.313	0.05178	356.150	19.140	0.01581	0.004	353.312
5061	0.244	0.03128	355.078	14.640	0.01559	0.008	353.312
5063	0.246	0.03128	355.085	14.740	0.01562	0.008	353.312
5065	0.247	0.03592	355.352	14.830	0.01572	0.006	353.312
5067	0.249	0.03592	355.346	14.910	0.01573	0.006	353.314
5069	0.250	0.04088	355.624	14.980	0.01577	0.006	353.311
5071	0.251	0.04088	355.625	15.060	0.01578	0.006	353.310
5073	0.252	0.04617	355.919	15.120	0.01580	0.005	353.313
5075	0.253	0.04617	355.922	15.190	0.01581	0.005	353.316
5077	0.255	0.05178	356.230	15.240	0.01584	0.004	353.311
5079	0.256	0.05178	356.236	15.310	0.01584	0.004	353.313
5081	0.207	0.03128	355.119	12.240	0.01579	0.008	353.308
5083	0.208	0.03128	355.112	12.330	0.01581	0.008	353.309
5085	0.210	0.03592	355.392	12.410	0.01581	0.007	353.311
5087	0.211	0.03592	355.384	12.480	0.01584	0.006	353.304
5089	0.212	0.04088	355.669	12.550	0.01583	0.006	353.302
5091	0.213	0.04088	355.665	12.630	0.01586	0.006	353.303

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
5093	0.215	0.04617	355.974	12.710	0.01588	0.005	353.303
5095	0.216	0.04616	355.950	12.790	0.01586	0.005	353.303
5097	0.217	0.05177	356.273	12.860	0.01591	0.004	353.305
5099	0.219	0.05177	356.269	12.930	0.01590	0.004	353.305
5103	0.152	0.03127	355.140	8.800	0.01594	0.008	353.294
5105	0.153	0.03592	355.416	8.860	0.01612	0.007	353.291
5109	0.154	0.04088	355.699	8.920	0.01608	0.006	353.289
5111	0.154	0.04088	355.703	8.950	0.01614	0.006	353.287
5113	0.155	0.04617	356.017	8.980	0.01616	0.005	353.288
5115	0.155	0.04616	356.015	9.020	0.01617	0.006	353.288
5117	0.156	0.05178	356.335	9.030	0.01618	0.005	353.285
5119	0.156	0.05178	356.339	9.050	0.01618	0.005	353.286
6021	0.181	0.03009	369.645	10.140	0.01720	0.009	368.020
6025	0.181	0.03455	369.914	10.100	0.01727	0.007	368.027
6027	0.181	0.03456	369.907	10.110	0.01730	0.007	368.026
6031	0.181	0.03933	370.166	10.090	0.01718	0.006	368.023
6033	0.180	0.04441	370.452	10.050	0.01731	0.006	368.025
6035	0.180	0.04441	370.452	10.030	0.01713	0.007	368.024
6037	0.180	0.04981	370.747	10.010	0.01735	0.005	368.025
6039	0.180	0.04981	370.746	10.000	0.01737	0.005	368.023
6043	0.287	0.03009	369.592	16.540	0.01691	0.008	368.023
6045	0.287	0.03456	369.837	16.530	0.01691	0.007	368.025
6049	0.286	0.03933	370.088	16.470	0.01685	0.006	368.024
6051	0.286	0.03933	370.089	16.450	0.01688	0.006	368.024
6055	0.286	0.04441	370.355	16.420	0.01698	0.005	368.023
6057	0.286	0.04981	370.634	16.410	0.01701	0.005	368.023
6059	0.286	0.04981	370.641	16.410	0.01700	0.005	368.030
6061	0.387	0.03008	369.522	23.030	0.01679	0.008	368.022
6063	0.387	0.03008	369.522	23.010	0.01681	0.008	368.019
6065	0.387	0.03455	369.744	22.990	0.01682	0.006	368.022
6067	0.387	0.03455	369.749	22.970	0.01684	0.007	368.024
6069	0.387	0.03932	369.991	22.950	0.01688	0.006	368.023
6071	0.387	0.03932	370.000	22.950	0.01686	0.006	368.024
6073	0.387	0.04440	370.252	22.940	0.01689	0.005	368.021
6075	0.387	0.04440	370.251	22.970	0.01689	0.005	368.021
6077	0.388	0.04980	370.518	22.960	0.01694	0.005	368.020
6079	0.388	0.04980	370.519	22.970	0.01695	0.005	368.022
6081	0.499	0.03008	369.479	30.840	0.01681	0.008	368.025
6083	0.500	0.03008	369.470	30.890	0.01672	0.008	368.020
6085	0.500	0.03455	369.691	30.900	0.01682	0.007	368.025
6087	0.501	0.03455	369.684	30.950	0.01683	0.006	368.025
6089	0.501	0.03932	369.913	30.910	0.01689	0.006	368.023
6091	0.501	0.03932	369.913	30.900	0.01691	0.006	368.025
6093	0.500	0.04440	370.164	30.810	0.01692	0.005	368.030
6095	0.499	0.04441	370.157	30.780	0.01692	0.006	368.023
6097	0.499	0.04980	370.414	30.710	0.01701	0.005	368.025
6099	0.499	0.04980	370.417	30.680	0.01702	0.005	368.023
6121	0.531	0.03009	369.401	33.240	0.01682	0.008	367.991

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
6123	0.531	0.03009	369.418	33.230	0.01681	0.008	367.987
6125	0.531	0.03456	369.633	33.190	0.01693	0.007	367.991
6127	0.532	0.03456	369.643	33.260	0.01688	0.007	367.992
6129	0.533	0.03933	369.879	33.310	0.01690	0.006	367.994
6131	0.534	0.03933	369.876	33.350	0.01683	0.005	367.992
6133	0.534	0.04441	370.123	33.310	0.01690	0.005	367.994
6135	0.534	0.04441	370.118	33.310	0.01698	0.005	367.996
6137	0.534	0.04981	370.373	33.260	0.01700	0.005	367.991
6139	0.533	0.04981	370.377	33.250	0.01705	0.005	367.996
7023	0.225	0.02897	384.409	12.150	0.01843	0.009	382.967
7025	0.226	0.03327	384.634	12.200	0.01842	0.008	382.965
7029	0.228	0.03786	384.858	12.280	0.01838	0.006	382.963
7031	0.229	0.03786	384.863	12.330	0.01839	0.006	382.967
7035	0.230	0.04276	385.106	12.390	0.01840	0.006	382.963
7037	0.231	0.04795	385.372	12.430	0.01845	0.005	382.961
7041	0.319	0.02897	384.364	17.620	0.01809	0.009	382.962
7043	0.319	0.02897	384.379	17.630	0.01810	0.009	382.964
7045	0.319	0.03327	384.585	17.620	0.01810	0.007	382.965
7047	0.320	0.03327	384.589	17.650	0.01819	0.007	382.962
7049	0.320	0.03786	384.800	17.630	0.01820	0.006	382.965
7051	0.319	0.03787	384.793	17.600	0.01815	0.006	382.961
7053	0.319	0.04276	385.044	17.590	0.01823	0.006	382.963
7055	0.319	0.04276	385.042	17.570	0.01819	0.005	382.958
7057	0.319	0.04796	385.289	17.560	0.01827	0.005	382.957
7059	0.319	0.04796	385.293	17.560	0.01825	0.005	382.963
7061	0.421	0.02897	384.303	23.910	0.01795	0.008	382.955
7063	0.421	0.02897	384.308	23.910	0.01801	0.009	382.953
7065	0.421	0.03327	384.513	23.850	0.01803	0.007	382.956
7067	0.421	0.03327	384.510	23.840	0.01805	0.007	382.959
7069	0.420	0.03786	384.731	23.800	0.01810	0.006	382.954
7071	0.421	0.03787	384.740	23.820	0.01812	0.006	382.958
7073	0.420	0.04276	384.957	23.750	0.01809	0.005	382.956
7075	0.420	0.04276	384.965	23.760	0.01819	0.005	382.960
7077	0.420	0.04795	385.211	23.710	0.01817	0.005	382.958
7079	0.419	0.04796	385.222	23.700	0.01816	0.005	382.962
7081	0.538	0.02897	384.268	31.570	0.01799	0.009	382.958
7083	0.538	0.02897	384.267	31.550	0.01811	0.009	382.952
7085	0.538	0.03327	384.457	31.540	0.01805	0.007	382.956
7087	0.538	0.03327	384.462	31.560	0.01812	0.007	382.959
7089	0.539	0.03786	384.662	31.560	0.01808	0.006	382.958
7091	0.539	0.03786	384.662	31.580	0.01814	0.006	382.955
7093	0.539	0.04276	384.898	31.570	0.01815	0.005	382.955
7095	0.540	0.04276	384.890	31.630	0.01813	0.005	382.956
7097	0.541	0.04795	385.121	31.650	0.01825	0.005	382.956
7099	0.541	0.04796	385.127	31.650	0.01821	0.005	382.957
7101	0.679	0.02897	384.203	41.700	0.01819	0.009	382.954
7102	0.679	0.02897	384.195	41.710	0.01817	0.008	382.948
7103	0.679	0.03327	384.385	41.670	0.01823	0.007	382.948

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
7104	0.679	0.03327	384.394	41.680	0.01822	0.007	382.950
7105	0.679	0.03786	384.586	41.640	0.01830	0.006	382.953
7106	0.679	0.03787	384.589	41.640	0.01831	0.006	382.953
7107	0.680	0.04276	384.796	41.610	0.01831	0.005	382.953
7108	0.680	0.04275	384.795	41.610	0.01830	0.006	382.948
7109	0.679	0.04795	385.034	41.550	0.01851	0.005	382.954
7110	0.679	0.04795	385.023	41.550	0.01836	0.005	382.951
8063	0.310	0.02797	398.707	16.320	0.01943	0.009	397.421
8065	0.310	0.03212	398.909	16.270	0.01943	0.008	397.420
8067	0.310	0.03212	398.909	16.270	0.01962	0.010	397.423
8069	0.310	0.03656	399.118	16.270	0.01943	0.007	397.423
8071	0.310	0.03656	399.101	16.280	0.01955	0.007	397.423
8073	0.310	0.04128	399.320	16.300	0.01948	0.006	397.425
8075	0.310	0.04128	399.316	16.260	0.01949	0.006	397.424
8077	0.309	0.04630	399.553	16.200	0.01952	0.005	397.422
8079	0.309	0.04630	399.557	16.230	0.01956	0.005	397.427
8081	0.405	0.02797	398.681	21.770	0.01933	0.009	397.436
8083	0.404	0.02797	398.677	21.690	0.01933	0.009	397.431
8085	0.403	0.03212	398.870	21.610	0.01937	0.008	397.437
8087	0.402	0.03212	398.869	21.570	0.01936	0.008	397.437
8089	0.402	0.03655	399.072	21.530	0.01934	0.007	397.437
8091	0.401	0.03655	399.069	21.490	0.01938	0.006	397.436
8093	0.401	0.04128	399.293	21.450	0.01939	0.006	397.440
8095	0.401	0.04128	399.293	21.450	0.01939	0.006	397.440
8097	0.400	0.04630	399.521	21.420	0.01938	0.005	397.441
8099	0.401	0.04630	399.524	21.430	0.01932	0.005	397.448
8101	0.514	0.02796	398.659	28.300	0.01927	0.009	397.447
8103	0.513	0.02796	398.656	28.230	0.01933	0.009	397.449
8105	0.512	0.03212	398.845	28.170	0.01927	0.008	397.445
8107	0.511	0.03212	398.844	28.080	0.01931	0.008	397.448
8109	0.510	0.03655	399.045	28.010	0.01930	0.007	397.454
8111	0.510	0.03655	399.034	28.020	0.01933	0.007	397.446
8113	0.509	0.04128	399.250	27.940	0.01936	0.006	397.455
8115	0.509	0.04128	399.252	27.930	0.01933	0.006	397.455
8117	0.508	0.04630	399.462	27.890	0.01936	0.005	397.450
8119	0.509	0.04630	399.469	27.900	0.01947	0.005	397.450
8121	0.726	0.02797	398.583	42.270	0.01928	0.009	397.444
8123	0.725	0.03212	398.758	42.140	0.01937	0.008	397.445
8124	0.724	0.03212	398.741	42.080	0.01931	0.008	397.445
8125	0.723	0.03655	398.927	41.980	0.01947	0.007	397.441
8126	0.722	0.03656	398.925	41.910	0.01938	0.006	397.438
8127	0.721	0.04128	399.131	41.830	0.01921	0.011	397.442
8128	0.720	0.04128	399.126	41.750	0.01948	0.006	397.440
8129	0.719	0.04630	399.334	41.680	0.01949	0.005	397.438
8130	0.719	0.04630	399.339	41.680	0.01950	0.005	397.438
8131	0.917	0.02796	398.599	56.560	0.01958	0.009	397.474
8132	0.918	0.02796	398.603	56.650	0.01960	0.009	397.475
8133	0.919	0.03211	398.766	56.720	0.01969	0.008	397.476

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
8134	0.921	0.03211	398.773	56.840	0.01969	0.008	397.474
8135	0.922	0.03654	398.949	56.910	0.01969	0.006	397.482
8136	0.924	0.03654	398.956	57.050	0.01967	0.006	397.484
8137	0.926	0.04127	399.141	57.120	0.01976	0.006	397.487
8138	0.927	0.04126	399.114	57.260	0.01972	0.006	397.488
8139	0.929	0.04627	399.280	57.350	0.01987	0.005	397.494
8140	0.931	0.04627	399.271	57.500	0.01984	0.005	397.490
8141	0.939	0.02795	398.584	58.410	0.01960	0.009	397.503
8142	0.941	0.02795	398.587	58.570	0.01969	0.009	397.508
8143	0.943	0.03210	398.752	58.700	0.01964	0.007	397.512
8144	0.945	0.03210	398.747	58.860	0.01970	0.008	397.508
8145	0.948	0.03653	398.924	58.990	0.01977	0.007	397.514
8146	0.950	0.03653	398.920	59.170	0.01975	0.007	397.513
8147	0.952	0.04125	399.112	59.270	0.01986	0.006	397.515
8148	0.954	0.04125	399.104	59.460	0.01986	0.006	397.511
8149	0.956	0.04626	399.300	59.560	0.01994	0.005	397.511
8150	0.958	0.04627	399.298	59.740	0.01997	0.005	397.513
9041	0.316	0.03526	414.140	15.880	0.02083	0.007	412.604
9043	0.316	0.03526	414.138	15.870	0.02088	0.007	412.604
9045	0.316	0.03982	414.335	15.850	0.02087	0.006	412.597
9047	0.315	0.03982	414.333	15.840	0.02081	0.006	412.599
9049	0.315	0.04466	414.554	15.820	0.02090	0.006	412.598
9051	0.315	0.04466	414.545	15.830	0.02087	0.006	412.599
9053	0.315	0.04978	414.770	15.800	0.02090	0.005	412.600
9055	0.315	0.04978	414.770	15.800	0.02101	0.005	412.598
9057	0.315	0.05518	415.006	15.810	0.02096	0.005	412.604
9059	0.315	0.05518	415.000	15.810	0.02096	0.004	412.597
9061	0.416	0.03527	414.080	21.330	0.02065	0.007	412.595
9063	0.416	0.03527	414.073	21.300	0.02062	0.007	412.598
9065	0.415	0.03982	414.275	21.250	0.02073	0.006	412.592
9067	0.415	0.03982	414.272	21.250	0.02064	0.006	412.598
9069	0.415	0.04466	414.479	21.210	0.02076	0.005	412.595
9071	0.414	0.04467	414.470	21.180	0.02075	0.005	412.592
9073	0.414	0.04978	414.691	21.160	0.02074	0.005	412.594
9075	0.413	0.04978	414.695	21.120	0.02072	0.005	412.594
9077	0.414	0.05518	414.923	21.110	0.02072	0.004	412.598
9079	0.414	0.05518	414.923	21.130	0.02079	0.004	412.596
9081	0.527	0.03527	414.038	27.590	0.02063	0.007	412.588
9083	0.527	0.03527	414.048	27.560	0.02053	0.007	412.588
9085	0.526	0.03983	414.225	27.520	0.02055	0.006	412.590
9087	0.526	0.03983	414.223	27.480	0.02062	0.006	412.590
9089	0.525	0.04466	414.425	27.450	0.02062	0.005	412.586
9091	0.525	0.04467	414.424	27.410	0.02066	0.005	412.593
9093	0.524	0.04978	414.635	27.380	0.02062	0.005	412.591
9095	0.525	0.04978	414.641	27.390	0.02069	0.005	412.590
9097	0.525	0.05518	414.862	27.370	0.02072	0.004	412.591
9099	0.525	0.05518	414.862	27.380	0.02072	0.004	412.589
9101	0.726	0.03527	413.961	39.650	0.02056	0.007	412.588

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
9102	0.725	0.03527	413.969	39.610	0.02068	0.007	412.587
9103	0.725	0.03983	414.151	39.580	0.02063	0.006	412.586
9104	0.725	0.03983	414.151	39.540	0.02057	0.006	412.589
9105	0.724	0.04467	414.336	39.490	0.02069	0.005	412.587
9106	0.724	0.04467	414.327	39.470	0.02072	0.005	412.583
9107	0.724	0.04978	414.539	39.420	0.02066	0.004	412.586
9108	0.723	0.04978	414.540	39.400	0.02067	0.005	412.587
9109	0.723	0.05518	414.749	39.340	0.02071	0.004	412.589
9110	0.723	0.05518	414.755	39.350	0.02077	0.004	412.592
9111	0.996	0.03527	413.868	58.140	0.02085	0.007	412.581
9112	0.995	0.03527	413.874	58.100	0.02083	0.007	412.583
9113	0.995	0.03983	414.035	58.020	0.02094	0.006	412.581
9114	0.995	0.03983	414.032	57.990	0.02088	0.006	412.586
9115	0.994	0.04467	414.209	57.930	0.02095	0.005	412.588
9116	0.994	0.04467	414.213	57.920	0.02096	0.005	412.587
9117	0.994	0.04978	414.404	57.820	0.02099	0.005	412.587
9118	0.994	0.04978	414.399	57.820	0.02093	0.005	412.588
9120	0.994	0.05518	414.601	57.750	0.02111	0.005	412.584
9121	1.237	0.03527	413.762	77.590	0.02147	0.007	412.572
9122	1.237	0.03527	413.780	77.570	0.02143	0.007	412.579
9123	1.237	0.03983	413.927	77.490	0.02145	0.006	412.577
9125	1.237	0.04467	414.105	77.400	0.02152	0.006	412.575
9126	1.236	0.04467	414.101	77.390	0.02152	0.006	412.576
9127	1.236	0.04978	414.279	77.310	0.02164	0.005	412.577
9128	1.237	0.04978	414.276	77.320	0.02161	0.005	412.574
9129	1.237	0.05518	414.473	77.220	0.02177	0.005	412.579
9130	1.236	0.05518	414.463	77.210	0.02172	0.005	412.576
9131	1.456	0.03527	413.676	99.180	0.02223	0.008	412.567
9132	1.456	0.03527	413.676	99.190	0.02223	0.007	412.574
9133	1.456	0.03982	413.827	99.040	0.02236	0.007	412.575
9134	1.456	0.03982	413.825	99.030	0.02231	0.007	412.573
9135	1.456	0.04467	413.974	98.900	0.02251	0.007	412.573
9136	1.456	0.04466	413.987	98.890	0.02250	0.007	412.574
9137	1.455	0.04978	414.130	98.750	0.02370	0.008	412.573
9138	1.455	0.04977	414.152	98.730	0.02268	0.007	412.571
9139	1.455	0.05518	414.308	98.600	0.02292	0.007	412.569
9140	1.455	0.05518	414.313	98.600	0.02291	0.007	412.572
10041	0.323	0.03412	428.686	15.610	0.02224	0.008	427.277
10045	0.323	0.03853	428.857	15.590	0.02220	0.007	427.276
10047	0.323	0.03853	428.862	15.570	0.02218	0.007	427.277
10051	0.323	0.04321	429.047	15.570	0.02222	0.006	427.276
10053	0.323	0.04815	429.273	15.580	0.02229	0.005	427.276
10057	0.324	0.05338	429.486	15.600	0.02226	0.005	427.273
10059	0.324	0.05338	429.470	15.590	0.02227	0.005	427.269
10061	0.429	0.03412	428.632	21.070	0.02194	0.008	427.270
10063	0.428	0.03412	428.623	21.040	0.02197	0.008	427.274
10065	0.429	0.03853	428.802	21.040	0.02206	0.007	427.269
10067	0.428	0.03853	428.797	21.020	0.02202	0.006	427.269

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
10069	0.428	0.04321	428.988	21.000	0.02197	0.006	427.267
10071	0.428	0.04321	428.996	20.990	0.02200	0.006	427.270
10073	0.428	0.04815	429.184	20.990	0.02203	0.005	427.267
10075	0.429	0.04816	429.184	21.010	0.02201	0.005	427.267
10077	0.428	0.05338	429.404	20.960	0.02204	0.005	427.269
10079	0.427	0.05338	429.398	20.920	0.02205	0.005	427.265
10081	0.511	0.03412	428.574	25.450	0.02195	0.008	427.261
10083	0.511	0.03412	428.583	25.460	0.02196	0.008	427.261
10087	0.511	0.03853	428.755	25.440	0.02187	0.006	427.261
10089	0.511	0.04321	428.944	25.420	0.02202	0.006	427.263
10093	0.511	0.04815	429.142	25.410	0.02203	0.005	427.259
10095	0.511	0.04815	429.147	25.420	0.02193	0.005	427.264
10099	0.511	0.05338	429.344	25.400	0.02201	0.005	427.264
10101	0.773	0.03412	428.505	40.370	0.02185	0.007	427.261
10102	0.773	0.03412	428.500	40.380	0.02182	0.007	427.260
10104	0.774	0.03853	428.658	40.390	0.02203	0.006	427.255
10105	0.774	0.04321	428.840	40.340	0.02195	0.006	427.258
10106	0.773	0.04321	428.848	40.320	0.02192	0.006	427.259
10107	0.773	0.04815	429.035	40.290	0.02189	0.005	427.259
10109	0.774	0.05338	429.205	40.280	0.02197	0.005	427.255
10110	0.773	0.05338	429.214	40.270	0.02189	0.005	427.255
10111	1.022	0.03412	428.435	56.150	0.02209	0.007	427.252
10112	1.021	0.03412	428.451	56.090	0.02199	0.007	427.255
10113	1.022	0.03853	428.604	56.060	0.02209	0.006	427.256
10114	1.021	0.03853	428.608	56.050	0.02208	0.006	427.255
10115	1.021	0.04321	428.781	56.010	0.02208	0.006	427.255
10116	1.021	0.04321	428.772	56.010	0.02205	0.006	427.251
10117	1.021	0.04815	428.955	55.950	0.02204	0.005	427.256
10118	1.021	0.04816	428.958	55.940	0.02216	0.005	427.258
10119	1.021	0.05338	429.131	55.890	0.02221	0.005	427.258
10120	1.021	0.05338	429.133	55.880	0.02216	0.005	427.258
10121	1.268	0.03412	428.377	73.740	0.02235	0.008	427.249
10122	1.267	0.03412	428.372	73.690	0.02232	0.007	427.247
10123	1.267	0.03853	428.534	73.600	0.02231	0.006	427.251
10124	1.266	0.03853	428.521	73.570	0.02248	0.006	427.248
10126	1.266	0.04321	428.690	73.460	0.02260	0.006	427.251
10127	1.266	0.04816	428.839	73.410	0.02254	0.005	427.252
10128	1.265	0.04816	428.836	73.380	0.02257	0.005	427.246
10129	1.265	0.05338	429.021	73.290	0.02254	0.005	427.250
10131	1.512	0.03412	428.284	94.160	0.02302	0.008	427.232
10132	1.512	0.03412	428.282	94.180	0.02291	0.007	427.232
10133	1.513	0.03853	428.421	94.160	0.02317	0.007	427.234
10134	1.513	0.03853	428.435	94.180	0.02305	0.007	427.241
10135	1.514	0.04321	428.580	94.130	0.02313	0.006	427.239
10136	1.514	0.04321	428.569	94.190	0.02319	0.006	427.241
10137	1.515	0.04816	428.721	94.100	0.02316	0.006	427.240
10138	1.516	0.04816	428.725	94.200	0.02325	0.006	427.237
10139	1.516	0.05338	428.886	94.130	0.02338	0.006	427.237

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
10140	1.517	0.05338	428.887	94.210	0.02341	0.006	427.240
10141	1.746	0.03412	428.212	117.800	0.02400	0.008	427.240
10142	1.746	0.03412	428.208	117.800	0.02387	0.008	427.240
10144	1.746	0.03853	428.339	117.700	0.02412	0.007	427.242
10145	1.746	0.04321	428.481	117.580	0.02432	0.007	427.241
10146	1.747	0.04321	428.481	117.610	0.02421	0.007	427.243
10147	1.747	0.04815	428.624	117.490	0.02450	0.007	427.239
10148	1.747	0.04816	428.622	117.520	0.02423	0.011	427.239
10149	1.747	0.05338	428.775	117.380	0.02455	0.007	427.243
10150	1.748	0.05338	428.769	117.420	0.02458	0.007	427.241
10153	2.033	0.02250	427.777	158.280	0.02592	0.014	427.223
10154	2.033	0.02250	427.776	158.270	0.02591	0.014	427.222
10155	2.033	0.02610	427.874	158.040	0.02593	0.011	427.225
10156	2.033	0.02610	427.864	158.070	0.02594	0.011	427.226
10157	2.033	0.02998	427.960	157.870	0.02627	0.010	427.225
10158	2.033	0.02998	427.970	157.860	0.02619	0.010	427.230
10159	2.033	0.03412	428.078	157.620	0.02652	0.010	427.232
10160	2.033	0.03412	428.078	157.640	0.02641	0.010	427.232
11041	0.394	0.03307	443.296	18.490	0.02354	0.008	442.007
11043	0.393	0.03307	443.295	18.430	0.02340	0.009	442.012
11045	0.392	0.03735	443.447	18.380	0.02339	0.007	442.008
11047	0.392	0.03734	443.455	18.380	0.02340	0.007	442.014
11049	0.392	0.04188	443.637	18.360	0.02353	0.007	442.012
11051	0.392	0.04188	443.630	18.340	0.02336	0.006	442.010
11053	0.392	0.04667	443.825	18.360	0.02348	0.006	442.013
11055	0.393	0.04668	443.825	18.370	0.02337	0.006	442.011
11057	0.393	0.05174	444.018	18.390	0.02344	0.005	442.010
11059	0.394	0.05174	444.020	18.440	0.02348	0.005	442.012
11061	0.526	0.03307	443.231	25.110	0.02333	0.008	442.013
11063	0.525	0.03307	443.229	25.080	0.02323	0.008	442.012
11065	0.525	0.03734	443.395	25.080	0.02338	0.007	442.015
11067	0.525	0.03734	443.399	25.060	0.02324	0.007	442.015
11069	0.524	0.04188	443.561	25.020	0.02315	0.006	442.014
11071	0.525	0.04188	443.556	25.040	0.02326	0.006	442.011
11073	0.525	0.04667	443.744	25.040	0.02344	0.006	442.013
11075	0.525	0.04667	443.748	25.050	0.02336	0.005	442.015
11077	0.525	0.05174	443.930	25.040	0.02328	0.005	442.010
11079	0.525	0.05174	443.932	25.040	0.02332	0.005	442.014
11081	0.760	0.03305	443.219	37.640	0.02315	0.008	442.057
11082	0.762	0.03305	443.229	37.740	0.02322	0.008	442.059
11083	0.763	0.03732	443.385	37.750	0.02461	0.007	442.064
11084	0.764	0.03733	443.377	37.810	0.02309	0.007	442.059
11085	0.764	0.04186	443.532	37.830	0.02315	0.006	442.054
11086	0.765	0.04186	443.536	37.860	0.02310	0.006	442.064
11087	0.766	0.04666	443.718	37.900	0.02314	0.005	442.061
11089	0.767	0.05172	443.903	37.910	0.02310	0.005	442.065
11090	0.768	0.05171	443.902	37.970	0.02317	0.005	442.062
11091	1.013	0.03305	443.144	52.320	0.02311	0.008	442.055

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11092	1.013	0.03305	443.156	52.330	0.02317	0.008	442.061
11093	1.013	0.03732	443.285	52.310	0.02324	0.007	442.053
11094	1.013	0.03732	443.290	52.290	0.02330	0.007	442.051
11096	1.013	0.04186	443.446	52.290	0.02333	0.006	442.054
11097	1.014	0.04665	443.603	52.270	0.02333	0.006	442.055
11098	1.014	0.04665	443.611	52.300	0.02327	0.006	442.054
11099	1.014	0.05171	443.770	52.250	0.02331	0.005	442.058
11100	1.014	0.05171	443.772	52.250	0.02334	0.005	442.053
11101	1.271	0.03306	443.086	68.900	0.02349	0.008	442.038
11102	1.271	0.03305	443.080	68.880	0.02331	0.008	442.047
11104	1.270	0.03733	443.211	68.800	0.02348	0.007	442.043
11105	1.271	0.04186	443.384	68.790	0.02354	0.006	442.043
11106	1.271	0.04186	443.374	68.790	0.02355	0.006	442.043
11107	1.271	0.04665	443.522	68.790	0.02352	0.005	442.041
11109	1.271	0.05172	443.696	68.740	0.02354	0.005	442.038
11110	1.272	0.05171	443.699	68.760	0.02362	0.005	442.043
11111	1.513	0.03306	443.028	86.370	0.02391	0.008	442.035
11112	1.513	0.03306	443.018	86.330	0.02389	0.008	442.035
11113	1.513	0.03733	443.172	86.290	0.02394	0.007	442.036
11114	1.513	0.03733	443.178	86.260	0.02399	0.007	442.037
11115	1.513	0.04187	443.312	86.220	0.02388	0.006	442.034
11116	1.513	0.04187	443.311	86.210	0.02393	0.006	442.038
11117	1.513	0.04666	443.463	86.140	0.02389	0.005	442.038
11118	1.513	0.04666	443.456	86.160	0.02393	0.006	442.031
11119	1.513	0.05172	443.609	86.040	0.02406	0.005	442.032
11120	1.513	0.05172	443.632	86.060	0.02400	0.005	442.038
11121	1.766	0.03306	442.985	107.170	0.02446	0.008	442.034
11122	1.766	0.03306	442.974	107.160	0.02444	0.008	442.033
11123	1.766	0.03733	443.119	107.100	0.02451	0.007	442.034
11124	1.766	0.03733	443.108	107.100	0.02447	0.007	442.039
11125	1.766	0.04186	443.253	107.000	0.02457	0.006	442.039
11126	1.766	0.04186	443.239	107.010	0.02453	0.006	442.039
11127	1.766	0.04665	443.377	106.920	0.02457	0.006	442.033
11128	1.766	0.04666	443.380	106.900	0.02450	0.006	442.036
11129	1.766	0.05172	443.526	106.850	0.02478	0.006	442.039
11130	1.767	0.05171	443.527	106.860	0.02466	0.006	442.037
11131	2.017	0.03306	442.911	131.750	0.02539	0.009	442.035
11132	2.017	0.03306	442.922	131.760	0.02553	0.009	442.045
11133	2.017	0.03733	443.030	131.620	0.02536	0.007	442.037
11134	2.017	0.03733	443.054	131.620	0.02546	0.007	442.040
11135	2.017	0.04186	443.160	131.490	0.02559	0.007	442.040
11136	2.017	0.04186	443.157	131.460	0.02564	0.007	442.042
11137	2.017	0.04665	443.304	131.300	0.02561	0.007	442.043
11138	2.017	0.04666	443.286	131.320	0.02568	0.007	442.035
11139	2.017	0.05172	443.434	131.160	0.02579	0.007	442.044
11140	2.017	0.05171	443.437	131.170	0.02583	0.007	442.040
11141	2.254	0.03306	442.847	160.570	0.02676	0.009	442.038
11142	2.253	0.03306	442.839	160.550	0.02677	0.009	442.037

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11143	2.254	0.03733	442.949	160.380	0.02691	0.008	442.045
11144	2.254	0.03733	442.966	160.400	0.02706	0.008	442.046
11145	2.254	0.04186	443.066	160.240	0.02729	0.008	442.037
11146	2.254	0.04186	443.061	160.240	0.02717	0.008	442.040
11147	2.254	0.04665	443.190	160.030	0.02741	0.008	442.039
11148	2.254	0.04665	443.177	160.050	0.02725	0.008	442.043
11149	2.254	0.05172	443.320	159.780	0.02768	0.008	442.042
11150	2.254	0.05172	443.300	159.790	0.02768	0.009	442.040
11151	2.509	0.02529	442.552	204.500	0.02975	0.013	442.028
11152	2.509	0.02529	442.548	204.500	0.02957	0.013	442.030
11153	2.509	0.02905	442.627	204.180	0.02985	0.011	442.031
11154	2.509	0.02905	442.634	204.160	0.02979	0.012	442.031
11155	2.509	0.03306	442.712	203.910	0.03010	0.011	442.029
11156	2.509	0.03306	442.721	203.880	0.03016	0.011	442.035
11157	2.509	0.03733	442.810	203.550	0.03041	0.011	442.036
11158	2.509	0.03733	442.814	203.540	0.03048	0.011	442.036

Table S6. Thermal conductivity of liquid R1336mzz(Z) from transient measurements with a single platinum hot wire at temperatures from (311 to 428) K.

Run Point	P_e / MPa	q / W · m^{-1}	T_e / K	ρ_e / kg · m^{-3}	λ_e / W · m^{-1} · K^{-1}	STAT	T_i / K
1091	1.452	0.13204	310.876	1336.160	0.07652	0.002	309.956
1093	1.447	0.16315	311.101	1335.540	0.07638	0.001	309.961
1094	1.445	0.16314	311.096	1335.550	0.07636	0.001	309.957
1095	1.438	0.19752	311.334	1334.890	0.07630	0.001	309.955
1096	1.440	0.19751	311.343	1334.870	0.07628	0.001	309.961
1097	1.440	0.23521	311.606	1334.170	0.07581	0.002	309.961
1098	1.439	0.23520	311.605	1334.170	0.07623	0.001	309.959
1099	1.434	0.27624	311.898	1333.370	0.07609	0.001	309.962
1100	1.433	0.27624	311.892	1333.380	0.07610	0.001	309.957
1101	0.154	0.13189	310.696	1331.570	0.07585	0.002	309.766
1102	0.154	0.13189	310.691	1331.580	0.07581	0.002	309.759
1103	0.154	0.16297	310.914	1330.970	0.07577	0.001	309.762
1105	0.154	0.19731	311.161	1330.300	0.07569	0.001	309.765
1106	0.154	0.19731	311.164	1330.290	0.07560	0.001	309.767
1107	0.154	0.23497	311.425	1329.580	0.07561	0.001	309.761
1108	0.154	0.23496	311.426	1329.580	0.07547	0.001	309.762
1109	0.154	0.27596	311.715	1328.790	0.07524	0.002	309.760
1110	0.154	0.27596	311.716	1328.790	0.07547	0.001	309.760
1111	4.982	0.13188	310.662	1349.590	0.07823	0.002	309.765
1112	4.982	0.13188	310.662	1349.590	0.07825	0.002	309.763
1113	4.986	0.16296	310.878	1349.070	0.07811	0.001	309.764
1114	4.989	0.16296	310.873	1349.090	0.07814	0.001	309.761
1115	4.991	0.19730	311.114	1348.490	0.07801	0.001	309.764
1116	4.994	0.19730	311.110	1348.510	0.07802	0.001	309.760
1117	4.994	0.23494	311.367	1347.860	0.07788	0.001	309.757
1118	4.991	0.23494	311.371	1347.840	0.07796	0.001	309.762
1119	4.992	0.27592	311.646	1347.150	0.07788	0.001	309.752
1120	4.996	0.27592	311.653	1347.150	0.07832	0.001	309.760
1121	10.150	0.13187	310.627	1366.550	0.08064	0.002	309.764
1122	10.124	0.13186	310.637	1366.440	0.08060	0.002	309.761
1123	10.100	0.16293	310.844	1365.880	0.08041	0.001	309.759
1124	10.082	0.16293	310.846	1365.820	0.08044	0.001	309.761
1125	10.066	0.19726	311.080	1365.220	0.08033	0.001	309.763
1126	10.055	0.19727	311.079	1365.190	0.08036	0.001	309.763
1127	10.045	0.23491	311.332	1364.570	0.08028	0.001	309.759
1128	10.041	0.23491	311.334	1364.550	0.08025	0.001	309.763
1129	10.038	0.27588	311.605	1363.900	0.08013	0.001	309.757
1130	10.032	0.27588	311.610	1363.870	0.08016	0.001	309.763
1131	13.059	0.16292	310.803	1374.820	0.08181	0.001	309.757
1132	12.986	0.16293	310.807	1374.600	0.08170	0.001	309.759
1133	12.922	0.19727	311.042	1373.880	0.08159	0.001	309.763
1134	12.866	0.19727	311.042	1373.720	0.08155	0.001	309.761
1135	12.813	0.23490	311.296	1372.990	0.08144	0.001	309.764
1136	12.760	0.23490	311.293	1372.840	0.08137	0.001	309.762
1137	12.717	0.27585	311.585	1372.040	0.08125	0.001	309.760
1138	12.678	0.27586	311.587	1371.930	0.08130	0.001	309.762

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
1139	12.630	0.32008	311.881	1371.110	0.08115	0.001	309.761
1140	12.603	0.32008	311.882	1371.030	0.08117	0.001	309.759
1141	18.171	0.16303	310.852	1388.840	0.08373	0.002	309.797
1142	18.183	0.16302	310.864	1388.840	0.08375	0.001	309.805
1143	18.185	0.19738	311.094	1388.350	0.08375	0.001	309.806
1144	18.187	0.19739	311.099	1388.350	0.08371	0.001	309.814
1145	18.198	0.23504	311.360	1387.810	0.08369	0.001	309.821
1146	18.193	0.23505	311.366	1387.790	0.08362	0.001	309.827
1147	18.197	0.27605	311.643	1387.200	0.08355	0.001	309.833
1148	18.206	0.27605	311.654	1387.200	0.08354	0.001	309.839
1149	18.206	0.32028	311.948	1386.570	0.08345	0.001	309.845
1150	18.216	0.32029	311.954	1386.580	0.08350	0.001	309.846
1151	16.619	0.16292	311.020	1384.320	0.08315	0.001	309.968
1152	16.620	0.16292	311.023	1384.320	0.08315	0.001	309.972
1153	16.611	0.19726	311.251	1383.790	0.08308	0.001	309.974
1154	16.618	0.19726	311.253	1383.810	0.08309	0.001	309.975
1155	16.612	0.23490	311.500	1383.250	0.08365	0.002	309.974
1156	16.645	0.23490	311.523	1383.290	0.08300	0.001	309.976
1157	16.672	0.27585	311.799	1382.760	0.08293	0.001	309.981
1158	16.681	0.27584	311.799	1382.790	0.08294	0.001	309.982
1159	16.686	0.32007	312.093	1382.160	0.08285	0.001	309.986
1160	16.689	0.32007	312.104	1382.140	0.08283	0.001	309.993
1161	16.455	0.16281	311.247	1383.380	0.08301	0.001	310.194
1162	16.453	0.16280	311.246	1383.370	0.08299	0.001	310.194
1163	16.444	0.19712	311.470	1382.860	0.08292	0.001	310.191
1164	16.454	0.19710	311.472	1382.880	0.08300	0.001	310.192
1165	16.462	0.23472	311.719	1382.360	0.08282	0.001	310.193
1166	16.459	0.23471	311.715	1382.360	0.08348	0.002	310.192
1167	16.465	0.27565	311.986	1381.790	0.08283	0.001	310.192
1168	16.459	0.27565	311.982	1381.780	0.08283	0.001	310.189
1169	16.452	0.31985	312.279	1381.110	0.08270	0.001	310.197
1170	16.460	0.31985	312.272	1381.140	0.08272	0.001	310.190
1171	23.048	0.16278	311.193	1400.480	0.08573	0.001	310.187
1172	23.042	0.16279	311.194	1400.470	0.08553	0.001	310.188
1174	23.037	0.19708	311.413	1400.000	0.08558	0.001	310.189
1175	23.046	0.23469	311.653	1399.530	0.08553	0.001	310.185
1176	23.048	0.23468	311.651	1399.530	0.08547	0.001	310.185
1177	23.040	0.27564	311.905	1398.990	0.08537	0.001	310.180
1178	23.038	0.27562	311.901	1398.990	0.08559	0.002	310.179
1179	23.041	0.31982	312.184	1398.420	0.08535	0.001	310.179
1180	23.036	0.31981	312.184	1398.410	0.08532	0.001	310.181
1181	30.823	0.19712	311.378	1418.040	0.08833	0.001	310.177
1182	30.813	0.19712	311.382	1418.010	0.08845	0.001	310.182
1183	30.801	0.23474	311.603	1417.550	0.08836	0.001	310.177
1184	30.804	0.23474	311.608	1417.550	0.08830	0.001	310.177
1185	30.813	0.27568	311.859	1417.080	0.08833	0.001	310.174
1186	30.799	0.27570	311.854	1417.060	0.08828	0.001	310.173
1187	30.801	0.31988	312.130	1416.530	0.08819	0.001	310.174

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
1188	30.807	0.31988	312.126	1416.550	0.08821	0.001	310.169
1189	30.802	0.36734	312.417	1415.970	0.08811	0.001	310.169
1190	30.787	0.36734	312.412	1415.950	0.08816	0.001	310.165
1191	38.829	0.19716	311.316	1434.770	0.09113	0.001	310.159
1192	38.821	0.19716	311.317	1434.750	0.09117	0.001	310.159
1193	38.810	0.23478	311.534	1434.330	0.09111	0.001	310.152
1194	38.823	0.23478	311.542	1434.340	0.09116	0.001	310.159
1195	38.809	0.27573	311.784	1433.860	0.09102	0.001	310.156
1196	38.813	0.27572	311.782	1433.870	0.09106	0.001	310.153
1197	38.804	0.31993	312.047	1433.370	0.09094	0.001	310.151
1198	38.813	0.31994	312.050	1433.380	0.09098	0.001	310.155
1199	38.817	0.36740	312.331	1432.870	0.09093	0.001	310.149
1200	38.818	0.36740	312.328	1432.880	0.09090	0.001	310.148
1201	47.799	0.23485	311.466	1451.360	0.09396	0.001	310.118
1202	47.779	0.23486	311.458	1451.340	0.09396	0.001	310.112
1203	47.776	0.27607	311.860	1450.630	0.09385	0.001	310.120
1205	47.760	0.32009	311.997	1450.360	0.09379	0.002	310.118
1206	47.745	0.32006	311.982	1450.360	0.09384	0.001	310.114
1207	47.747	0.36756	312.262	1449.870	0.09378	0.001	310.119
1208	47.740	0.36758	312.261	1449.860	0.09374	0.001	310.120
1209	47.738	0.41835	312.552	1449.350	0.09368	0.001	310.112
1210	47.728	0.41834	312.552	1449.330	0.09399	0.001	310.114
1211	47.713	0.23491	311.489	1451.170	0.09396	0.001	310.110
1212	47.706	0.23492	311.494	1451.150	0.09408	0.001	310.116
1213	47.690	0.27589	311.734	1450.700	0.09383	0.001	310.113
1214	47.680	0.27588	311.723	1450.700	0.09349	0.001	310.108
1215	47.674	0.32012	311.988	1450.220	0.09381	0.001	310.111
1216	47.678	0.32010	311.989	1450.230	0.09386	0.001	310.111
1217	47.672	0.36759	312.259	1449.740	0.09374	0.001	310.105
1218	47.656	0.36759	312.264	1449.710	0.09373	0.001	310.108
1219	47.657	0.41840	312.568	1449.170	0.09365	0.001	310.112
1220	47.652	0.41841	312.558	1449.180	0.09366	0.001	310.106
1221	57.921	0.23490	311.424	1468.710	0.09707	0.001	310.115
1222	57.914	0.23490	311.425	1468.700	0.09708	0.001	310.115
1223	57.913	0.27589	311.653	1468.320	0.09702	0.001	310.111
1224	57.906	0.27589	311.669	1468.280	0.09702	0.001	310.109
1225	57.902	0.32012	311.928	1467.840	0.09695	0.001	310.115
1226	57.901	0.32012	311.929	1467.840	0.09689	0.001	310.118
1227	57.899	0.36760	312.196	1467.390	0.09689	0.001	310.114
1228	57.898	0.36762	312.202	1467.380	0.09684	0.001	310.118
1229	57.898	0.41841	312.490	1466.890	0.09679	0.001	310.116
1230	57.896	0.41843	312.486	1466.900	0.09681	0.001	310.113
1231	67.735	0.23492	311.392	1484.080	0.09982	0.001	310.122
1232	67.729	0.23491	311.387	1484.080	0.09982	0.001	310.120
1233	67.725	0.27589	311.660	1483.640	0.09977	0.001	310.126
1234	67.710	0.27589	311.648	1483.630	0.09988	0.001	310.118
1235	67.714	0.32011	311.897	1483.240	0.09976	0.001	310.120
1236	67.690	0.32011	311.890	1483.220	0.09969	0.001	310.117

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
1237	67.678	0.36761	312.165	1482.760	0.09963	0.001	310.122
1238	67.676	0.36759	312.159	1482.760	0.09961	0.001	310.118
1239	67.663	0.41842	312.442	1482.290	0.09939	0.001	310.119
1240	67.651	0.41841	312.443	1482.270	0.09958	0.001	310.122
1241	0.218	0.16264	311.286	1330.220	0.07558	0.001	310.118
1242	0.217	0.16264	311.283	1330.220	0.07556	0.001	310.117
1243	0.215	0.19691	311.526	1329.560	0.07549	0.001	310.116
1244	0.218	0.19692	311.523	1329.570	0.07552	0.001	310.115
1245	0.221	0.23450	311.793	1328.850	0.07542	0.001	310.115
1246	0.219	0.23450	311.793	1328.840	0.07541	0.001	310.116
1247	0.223	0.27539	312.081	1328.070	0.07535	0.001	310.112
1248	0.221	0.27540	312.081	1328.070	0.07536	0.001	310.114
1249	0.224	0.31955	312.396	1327.220	0.07526	0.001	310.112
1250	0.225	0.31954	312.398	1327.220	0.07526	0.001	310.116
1251	0.243	0.16261	311.249	1330.420	0.07561	0.001	310.102
1252	0.241	0.16262	311.246	1330.420	0.07651	0.002	310.102
1253	0.248	0.19688	311.494	1329.770	0.07553	0.001	310.103
1254	0.248	0.19688	311.498	1329.760	0.07549	0.001	310.106
1255	0.249	0.23446	311.755	1329.070	0.07543	0.001	310.097
1256	0.253	0.23445	311.766	1329.050	0.07547	0.001	310.108
1257	0.254	0.27536	312.056	1328.270	0.07534	0.002	310.106
1258	0.252	0.27536	312.049	1328.280	0.07534	0.001	310.101
1259	0.249	0.31950	312.365	1327.400	0.07527	0.001	310.103
1260	0.251	0.31951	312.373	1327.390	0.07529	0.001	310.107
1261	5.000	0.16259	311.190	1348.330	0.07807	0.001	310.102
1262	4.990	0.16261	311.208	1348.250	0.07796	0.001	310.102
1263	4.988	0.19688	311.442	1347.650	0.07789	0.001	310.102
1264	4.971	0.19688	311.444	1347.590	0.07789	0.001	310.107
1265	4.962	0.23444	311.699	1346.920	0.07776	0.001	310.100
1266	4.960	0.23445	311.706	1346.890	0.07804	0.001	310.108
1267	4.957	0.27535	311.983	1346.180	0.07772	0.001	310.103
1268	4.951	0.27535	311.977	1346.180	0.07772	0.001	310.097
1269	4.949	0.31950	312.289	1345.380	0.07765	0.001	310.103
1270	4.949	0.31949	312.283	1345.400	0.07766	0.001	310.099
1271	10.192	0.16259	311.168	1365.410	0.08042	0.001	310.087
1272	10.197	0.16258	311.174	1365.410	0.08044	0.001	310.090
1273	10.194	0.19685	311.405	1364.860	0.08031	0.001	310.092
1274	10.193	0.19686	311.399	1364.870	0.08031	0.001	310.091
1276	10.197	0.23441	311.651	1364.290	0.08038	0.001	310.088
1277	10.196	0.27532	311.926	1363.640	0.08019	0.001	310.091
1278	10.199	0.27530	311.923	1363.660	0.08015	0.001	310.085
1279	10.199	0.31944	312.224	1362.950	0.08009	0.001	310.087
1280	10.201	0.31944	312.223	1362.960	0.07997	0.001	310.088
1281	16.219	0.16260	311.070	1383.120	0.08298	0.001	310.062
1282	16.216	0.16260	311.066	1383.120	0.08300	0.001	310.061
1283	16.214	0.19687	311.288	1382.630	0.08367	0.002	310.060
1284	16.210	0.19686	311.283	1382.630	0.08293	0.001	310.056
1285	16.206	0.23443	311.530	1382.070	0.08284	0.001	310.057

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
1286	16.200	0.23451	311.570	1381.970	0.08276	0.001	310.058
1287	16.213	0.27542	311.851	1381.390	0.08277	0.001	310.051
1288	16.210	0.27540	311.853	1381.370	0.08273	0.001	310.055
1289	16.209	0.31954	312.143	1380.740	0.08265	0.001	310.053
1290	16.208	0.31954	312.138	1380.750	0.08262	0.001	310.051
3141	0.410	0.18093	340.304	1247.760	0.06940	0.001	338.925
3143	0.407	0.21544	340.574	1246.910	0.06933	0.001	338.928
3144	0.406	0.21545	340.574	1246.900	0.06930	0.001	338.930
3145	0.403	0.25302	340.871	1245.970	0.06924	0.001	338.936
3146	0.407	0.25303	340.872	1245.990	0.06927	0.001	338.936
3147	0.406	0.29357	341.184	1245.030	0.06917	0.001	338.940
3148	0.410	0.29359	341.187	1245.050	0.06919	0.001	338.938
3149	0.411	0.33713	341.522	1244.020	0.06913	0.001	338.938
3150	0.412	0.33715	341.533	1243.990	0.06911	0.001	338.947
3151	0.420	0.18091	340.339	1247.710	0.06937	0.001	338.956
3152	0.421	0.18091	340.343	1247.700	0.06951	0.001	338.957
3153	0.421	0.21544	340.603	1246.910	0.06934	0.001	338.954
3154	0.424	0.21541	340.609	1246.900	0.06928	0.001	338.960
3155	0.426	0.25300	340.897	1246.030	0.06924	0.001	338.958
3156	0.426	0.25300	340.903	1246.020	0.06923	0.001	338.959
3157	0.430	0.29356	341.207	1245.100	0.06919	0.001	338.957
3158	0.431	0.29357	341.219	1245.070	0.06922	0.001	338.963
3159	0.430	0.33713	341.550	1244.050	0.06931	0.002	338.964
3160	0.433	0.33711	341.555	1244.050	0.06913	0.001	338.967
3161	4.657	0.18085	340.308	1270.570	0.07200	0.001	338.993
3162	4.659	0.18087	340.316	1270.560	0.07196	0.001	338.996
3163	4.658	0.21538	340.572	1269.850	0.07191	0.001	338.996
3164	4.659	0.21538	340.571	1269.850	0.07183	0.003	338.998
3165	4.663	0.25295	340.849	1269.110	0.07182	0.001	338.996
3166	4.665	0.25295	340.858	1269.100	0.07179	0.001	339.001
3167	4.667	0.29350	341.152	1268.290	0.07179	0.001	338.995
3168	4.668	0.29349	341.156	1268.290	0.07179	0.001	338.997
3169	4.669	0.33704	341.479	1267.400	0.07171	0.001	338.996
3170	4.666	0.33703	341.487	1267.370	0.07170	0.001	339.004
3171	9.300	0.18086	340.318	1291.560	0.07451	0.001	339.030
3172	9.301	0.18086	340.314	1291.570	0.07448	0.001	339.027
3173	9.301	0.21537	340.565	1290.940	0.07445	0.001	339.026
3174	9.301	0.21537	340.567	1290.940	0.07442	0.001	339.028
3175	9.302	0.25294	340.839	1290.260	0.07437	0.001	339.027
3176	9.303	0.25294	340.835	1290.270	0.07433	0.001	339.023
3177	9.304	0.29348	341.131	1289.530	0.07428	0.001	339.024
3178	9.305	0.29349	341.130	1289.540	0.07433	0.001	339.028
3179	9.307	0.33703	341.451	1288.740	0.07421	0.001	339.032
3180	9.309	0.33702	341.448	1288.760	0.07424	0.001	339.027
3181	14.846	0.18085	340.297	1313.090	0.07719	0.001	339.042
3182	14.851	0.18085	340.292	1313.120	0.07727	0.001	339.038
3183	14.852	0.21535	340.535	1312.560	0.07717	0.001	339.040
3184	14.853	0.21536	340.535	1312.570	0.07735	0.001	339.042

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
3185	14.852	0.25291	340.795	1311.970	0.07710	0.001	339.038
3186	14.854	0.25292	340.796	1311.970	0.07710	0.001	339.038
3187	14.856	0.29346	341.083	1311.310	0.07709	0.001	339.039
3188	14.856	0.29344	341.083	1311.310	0.07703	0.001	339.039
3189	14.856	0.33699	341.391	1310.600	0.07697	0.001	339.042
3190	14.858	0.33699	341.393	1310.610	0.07694	0.001	339.042
3191	21.359	0.18085	340.228	1334.970	0.08009	0.001	339.043
3192	21.362	0.18085	340.225	1334.980	0.08010	0.001	339.041
3193	21.363	0.21537	340.457	1334.490	0.08011	0.001	339.039
3194	21.363	0.21536	340.454	1334.500	0.08086	0.001	339.041
3195	21.363	0.25292	340.708	1333.960	0.07999	0.001	339.038
3196	21.362	0.25292	340.703	1333.960	0.08001	0.001	339.035
3197	21.360	0.29347	340.975	1333.380	0.07998	0.001	339.033
3198	21.362	0.29346	340.975	1333.380	0.07994	0.001	339.035
3199	21.368	0.33699	341.274	1332.760	0.07983	0.002	339.036
3200	21.369	0.33701	341.277	1332.760	0.07990	0.001	339.033
3201	21.252	0.18092	340.230	1334.630	0.08005	0.001	339.019
3202	21.238	0.18092	340.237	1334.570	0.08011	0.001	339.023
3203	21.237	0.21543	340.462	1334.090	0.08009	0.001	339.019
3204	21.221	0.21544	340.455	1334.050	0.08008	0.001	339.015
3205	21.212	0.25303	340.715	1333.470	0.07997	0.001	339.018
3206	21.210	0.25302	340.716	1333.460	0.07998	0.001	339.015
3207	21.198	0.29358	340.986	1332.850	0.07986	0.001	339.013
3208	21.189	0.29358	340.980	1332.830	0.07990	0.001	339.012
3209	21.177	0.33713	341.279	1332.150	0.07980	0.001	339.012
3210	21.168	0.33712	341.274	1332.140	0.07989	0.001	339.013
3211	28.903	0.18097	340.189	1356.850	0.08331	0.001	339.006
3212	28.898	0.18097	340.192	1356.830	0.08332	0.001	339.009
3213	28.897	0.21550	340.411	1356.400	0.08322	0.001	339.006
3214	28.899	0.21549	340.410	1356.410	0.08317	0.001	339.002
3215	28.892	0.25308	340.652	1355.910	0.08310	0.001	339.004
3216	28.888	0.25309	340.656	1355.890	0.08309	0.001	339.010
3217	28.888	0.29365	340.922	1355.360	0.08299	0.001	339.003
3218	28.885	0.29366	340.918	1355.360	0.08305	0.001	339.005
3219	28.884	0.33722	341.205	1354.790	0.08297	0.001	339.002
3220	28.888	0.33722	341.199	1354.810	0.08293	0.001	339.000
3221	37.045	0.21545	340.386	1377.110	0.08627	0.001	339.055
3222	37.040	0.21546	340.389	1377.090	0.08623	0.001	339.057
3223	37.044	0.25303	340.635	1376.640	0.08619	0.001	339.058
3224	37.044	0.25302	340.626	1376.660	0.08626	0.001	339.056
3225	37.040	0.29359	340.887	1376.170	0.08612	0.001	339.059
3226	37.040	0.29359	340.891	1376.160	0.08621	0.001	339.064
3227	37.046	0.33714	341.160	1375.680	0.08608	0.001	339.056
3228	37.047	0.33714	341.164	1375.670	0.08604	0.001	339.059
3229	37.051	0.38373	341.463	1375.120	0.08599	0.001	339.062
3230	37.055	0.38374	341.462	1375.140	0.08598	0.001	339.060
3231	46.266	0.21548	340.364	1397.820	0.08954	0.001	339.063
3232	46.255	0.21548	340.369	1397.790	0.08948	0.001	339.068

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3233	46.257	0.25306	340.595	1397.400	0.08942	0.001	339.067
3234	46.255	0.25305	340.600	1397.390	0.08947	0.001	339.068
3235	46.255	0.29362	340.854	1396.950	0.08972	0.002	339.070
3236	46.253	0.29362	340.847	1396.950	0.08940	0.001	339.066
3237	46.256	0.33720	341.118	1396.490	0.08929	0.001	339.069
3238	46.257	0.33718	341.115	1396.490	0.08925	0.001	339.066
3239	46.252	0.38380	341.396	1395.990	0.08929	0.001	339.061
3240	46.255	0.38379	341.404	1395.990	0.08939	0.001	339.068
3241	57.734	0.21551	340.302	1420.640	0.09227	0.003	339.071
3242	57.724	0.21550	340.299	1420.630	0.09323	0.001	339.068
3243	57.720	0.25309	340.520	1420.260	0.09323	0.001	339.066
3244	57.726	0.25309	340.522	1420.270	0.09316	0.001	339.067
3245	57.725	0.29366	340.764	1419.870	0.09310	0.001	339.065
3246	57.719	0.29366	340.757	1419.870	0.09303	0.002	339.066
3247	57.708	0.33721	341.010	1419.430	0.09305	0.001	339.060
3248	57.715	0.33722	341.014	1419.440	0.09302	0.001	339.062
3249	57.704	0.38382	341.292	1418.960	0.09290	0.001	339.067
3250	57.699	0.38382	341.286	1418.960	0.09292	0.001	339.059
3251	57.691	0.21554	340.321	1420.530	0.09323	0.001	339.057
3252	57.705	0.21555	340.316	1420.560	0.09337	0.001	339.054
3253	57.706	0.25313	340.549	1420.180	0.09320	0.001	339.059
3254	57.707	0.25313	340.544	1420.190	0.09315	0.001	339.057
3255	57.698	0.29371	340.782	1419.790	0.09308	0.001	339.058
3256	57.699	0.29370	340.780	1419.790	0.09308	0.001	339.054
3257	57.698	0.33729	341.042	1419.360	0.09296	0.001	339.055
3258	57.699	0.33727	341.041	1419.370	0.09300	0.001	339.060
3259	57.701	0.38390	341.310	1418.930	0.09295	0.001	339.054
3260	57.702	0.38389	341.321	1418.910	0.09293	0.001	339.059
3261	68.110	0.21556	340.266	1439.060	0.09641	0.001	339.055
3262	68.106	0.21556	340.268	1439.050	0.09630	0.001	339.060
3263	68.099	0.25315	340.478	1438.710	0.09632	0.001	339.053
3264	68.093	0.25315	340.480	1438.700	0.09630	0.001	339.054
3265	68.093	0.29374	340.711	1438.340	0.09639	0.001	339.049
3266	68.088	0.29373	340.712	1438.330	0.09620	0.001	339.055
3267	68.090	0.33731	340.960	1437.940	0.09614	0.001	339.052
3268	68.088	0.33729	340.963	1437.940	0.09611	0.001	339.053
3269	68.084	0.38391	341.229	1437.510	0.09601	0.001	339.053
3270	68.086	0.38391	341.223	1437.530	0.09570	0.002	339.051
6141	0.626	0.19899	369.708	1151.020	0.06347	0.002	368.055
6142	0.626	0.19899	369.720	1150.970	0.06349	0.002	368.060
6143	0.626	0.23370	370.007	1149.900	0.06350	0.002	368.063
6144	0.626	0.23370	370.005	1149.910	0.06390	0.002	368.061
6145	0.626	0.27115	370.311	1148.770	0.06364	0.002	368.057
6146	0.626	0.27117	370.318	1148.740	0.06366	0.002	368.063
6147	0.626	0.31138	370.650	1147.510	0.06400	0.002	368.061
6148	0.626	0.31139	370.647	1147.520	0.06401	0.002	368.061
6149	0.626	0.35443	371.008	1146.170	0.06433	0.003	368.062
6150	0.626	0.35441	371.003	1146.180	0.06449	0.003	368.064

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6151	0.759	0.19897	369.699	1152.340	0.06353	0.002	368.063
6152	0.760	0.19897	369.707	1152.330	0.06353	0.002	368.065
6153	0.766	0.23368	369.990	1151.340	0.06362	0.002	368.059
6154	0.771	0.23366	369.992	1151.390	0.06361	0.002	368.059
6155	0.774	0.27112	370.302	1150.270	0.06377	0.002	368.063
6156	0.778	0.27112	370.305	1150.290	0.06374	0.002	368.063
6157	0.781	0.31136	370.633	1149.110	0.06402	0.002	368.063
6158	0.786	0.31134	370.636	1149.150	0.06402	0.002	368.066
6159	0.791	0.35438	370.987	1147.900	0.06453	0.003	368.059
6160	0.794	0.35436	370.990	1147.920	0.06452	0.003	368.063
6161	4.065	0.19896	369.658	1180.740	0.06603	0.002	368.073
6162	4.068	0.19896	369.654	1180.780	0.06603	0.001	368.071
6163	4.070	0.23367	369.933	1179.910	0.06608	0.001	368.074
6164	4.071	0.23366	369.940	1179.890	0.06603	0.001	368.080
6165	4.078	0.27112	370.234	1179.010	0.06606	0.002	368.075
6166	4.077	0.27112	370.234	1179.000	0.06620	0.002	368.077
6167	4.078	0.31134	370.547	1178.010	0.06635	0.002	368.069
6168	4.081	0.31134	370.543	1178.050	0.06638	0.002	368.070
6169	4.082	0.35437	370.898	1176.930	0.06670	0.002	368.075
6170	4.080	0.35436	370.886	1176.950	0.06650	0.002	368.073
6171	7.977	0.19898	369.613	1207.410	0.06864	0.001	368.073
6172	7.982	0.19897	369.604	1207.470	0.06867	0.001	368.069
6173	7.987	0.23367	369.877	1206.740	0.06876	0.001	368.070
6174	7.993	0.23367	369.876	1206.780	0.06871	0.001	368.071
6175	7.995	0.27112	370.166	1205.970	0.06874	0.001	368.073
6176	7.995	0.27114	370.168	1205.970	0.06872	0.001	368.071
6177	7.995	0.31135	370.474	1205.110	0.06884	0.002	368.071
6178	7.998	0.31135	370.474	1205.130	0.06885	0.002	368.074
6179	7.995	0.35439	370.802	1204.190	0.06911	0.002	368.070
6180	8.000	0.35439	370.800	1204.230	0.06916	0.002	368.069
6181	12.970	0.19897	369.531	1235.110	0.07160	0.001	368.074
6182	12.971	0.19897	369.534	1235.110	0.07163	0.001	368.074
6183	12.969	0.23366	369.793	1234.450	0.07164	0.001	368.073
6184	12.969	0.23369	369.800	1234.430	0.07155	0.001	368.068
6185	12.970	0.27115	370.092	1233.710	0.07164	0.001	368.074
6186	12.966	0.27116	370.084	1233.710	0.07201	0.002	368.069
6187	12.963	0.31137	370.389	1232.930	0.07176	0.001	368.069
6188	12.961	0.31137	370.396	1232.900	0.07170	0.001	368.073
6189	12.958	0.35442	370.705	1232.120	0.07193	0.002	368.073
6190	12.961	0.35442	370.711	1232.120	0.07191	0.002	368.070
6191	18.891	0.19898	369.472	1262.060	0.07469	0.001	368.072
6192	18.897	0.19898	369.465	1262.100	0.07466	0.001	368.066
6193	18.891	0.23369	369.719	1261.500	0.07464	0.001	368.066
6194	18.883	0.23370	369.715	1261.480	0.07458	0.001	368.068
6195	18.886	0.27115	369.985	1260.880	0.07466	0.001	368.067
6196	18.883	0.27114	369.985	1260.870	0.07466	0.001	368.067
6197	18.886	0.31136	370.274	1260.220	0.07475	0.001	368.067
6198	18.879	0.31140	370.293	1260.150	0.07472	0.001	368.067

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6199	18.881	0.35445	370.598	1259.470	0.07492	0.001	368.064
6200	18.879	0.35445	370.598	1259.460	0.07490	0.001	368.065
6201	26.095	0.23371	369.651	1288.880	0.07798	0.001	368.061
6202	26.097	0.23372	369.656	1288.880	0.07801	0.001	368.063
6203	26.092	0.27118	369.915	1288.330	0.07800	0.001	368.062
6204	26.097	0.27119	369.911	1288.360	0.07805	0.001	368.061
6205	26.092	0.31140	370.188	1287.770	0.07808	0.001	368.059
6206	26.096	0.31140	370.185	1287.790	0.07808	0.001	368.056
6207	26.094	0.35444	370.481	1287.170	0.07818	0.001	368.054
6208	26.092	0.35447	370.482	1287.170	0.07819	0.001	368.058
6209	26.098	0.39890	370.783	1286.570	0.07837	0.001	368.056
6210	26.096	0.39887	370.791	1286.540	0.07835	0.001	368.058
6211	34.425	0.23377	369.602	1315.520	0.08152	0.001	368.052
6212	34.419	0.23377	369.607	1315.500	0.08160	0.001	368.051
6213	34.425	0.27125	369.851	1315.050	0.08156	0.001	368.050
6214	34.421	0.27125	369.853	1315.040	0.08150	0.001	368.048
6215	34.420	0.31149	370.116	1314.540	0.08154	0.001	368.051
6216	34.419	0.31148	370.117	1314.530	0.08157	0.001	368.049
6217	34.417	0.35454	370.403	1313.990	0.08158	0.001	368.049
6218	34.420	0.35453	370.399	1314.010	0.08159	0.001	368.044
6219	34.423	0.39897	370.695	1313.460	0.08182	0.001	368.044
6220	34.425	0.39897	370.698	1313.460	0.08178	0.001	368.046
6221	44.174	0.23377	369.503	1342.180	0.08515	0.001	368.047
6222	44.164	0.23376	369.500	1342.160	0.08521	0.001	368.048
6223	44.169	0.27124	369.740	1341.750	0.08520	0.001	368.043
6224	44.167	0.27123	369.740	1341.750	0.08530	0.001	368.048
6225	44.169	0.31148	370.001	1341.300	0.08523	0.001	368.042
6226	44.170	0.31149	370.001	1341.300	0.08531	0.001	368.047
6227	44.167	0.35452	370.271	1340.820	0.08532	0.001	368.045
6228	44.173	0.35450	370.268	1340.840	0.08530	0.001	368.045
6229	44.166	0.39899	370.572	1340.300	0.08544	0.001	368.042
6230	44.164	0.39900	370.572	1340.290	0.08539	0.001	368.041
6231	55.241	0.23381	369.447	1368.140	0.08900	0.001	368.040
6232	55.238	0.23381	369.446	1368.130	0.08901	0.001	368.041
6233	55.238	0.27128	369.673	1367.770	0.08906	0.001	368.040
6234	55.239	0.27128	369.681	1367.750	0.08908	0.001	368.044
6235	55.243	0.31154	369.918	1367.380	0.08908	0.001	368.040
6236	55.243	0.31153	369.920	1367.380	0.08909	0.001	368.036
6237	55.247	0.35459	370.189	1366.950	0.08912	0.001	368.038
6238	55.247	0.35457	370.183	1366.960	0.08912	0.001	368.040
6239	55.250	0.39899	370.458	1366.520	0.08923	0.001	368.039
6240	55.241	0.39899	370.458	1366.500	0.08917	0.001	368.039
6241	67.898	0.23386	369.381	1393.930	0.09316	0.001	368.043
6242	67.892	0.23385	369.373	1393.930	0.09322	0.001	368.038
6243	67.878	0.27132	369.600	1393.550	0.09300	0.001	368.041
6244	67.878	0.27133	369.601	1393.550	0.09309	0.001	368.043
6245	67.869	0.31158	369.837	1393.180	0.09309	0.001	368.040
6246	67.866	0.31158	369.832	1393.180	0.09308	0.001	368.038

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6247	67.857	0.35464	370.082	1392.780	0.09317	0.001	368.037
6248	67.849	0.35464	370.086	1392.760	0.09317	0.001	368.036
6249	67.848	0.39910	370.347	1392.370	0.09320	0.001	368.037
6250	67.838	0.39909	370.343	1392.350	0.09315	0.001	368.038
6251	67.826	0.23389	369.395	1393.760	0.09305	0.001	368.031
6252	67.816	0.23390	369.405	1393.730	0.09315	0.001	368.037
6253	67.809	0.27138	369.618	1393.400	0.09307	0.001	368.032
6254	67.797	0.27138	369.623	1393.370	0.09310	0.001	368.037
6255	67.790	0.31164	369.858	1393.000	0.09301	0.001	368.035
6256	67.790	0.31164	369.855	1393.000	0.09302	0.001	368.032
6257	67.792	0.35470	370.115	1392.610	0.09303	0.001	368.035
6258	67.793	0.35472	370.108	1392.620	0.09315	0.001	368.030
6259	67.788	0.39915	370.368	1392.220	0.09318	0.001	368.029
6260	67.788	0.39916	370.371	1392.210	0.09322	0.001	368.032
8171	1.434	0.09631	398.141	1041.810	0.05803	0.002	397.287
8172	1.433	0.09630	398.155	1041.720	0.05811	0.002	397.292
8173	1.429	0.11995	398.375	1040.570	0.05805	0.002	397.295
8175	1.424	0.14612	398.604	1039.330	0.05806	0.002	397.298
8176	1.425	0.14611	398.624	1039.240	0.05802	0.002	397.309
8177	1.424	0.17489	398.875	1037.970	0.05831	0.002	397.309
8178	1.425	0.17490	398.889	1037.920	0.05842	0.003	397.308
8179	1.423	0.20627	399.168	1036.500	0.05880	0.004	397.316
8180	1.421	0.20628	399.178	1036.400	0.05905	0.004	397.321
8181	3.415	0.09630	398.187	1073.090	0.06024	0.002	397.347
8182	3.412	0.09630	398.186	1073.040	0.06035	0.002	397.351
8183	3.408	0.11995	398.403	1072.110	0.05998	0.002	397.351
8184	3.404	0.11994	398.404	1072.060	0.06059	0.003	397.359
8185	3.402	0.14610	398.628	1071.120	0.06022	0.002	397.353
8186	3.403	0.14609	398.636	1071.090	0.06027	0.002	397.356
8187	3.401	0.17488	398.896	1070.010	0.06042	0.002	397.357
8188	3.398	0.17487	398.897	1069.970	0.06039	0.002	397.359
8189	3.398	0.20625	399.180	1068.810	0.06145	0.003	397.364
8190	3.393	0.20626	399.170	1068.790	0.06089	0.003	397.363
8191	6.594	0.11991	398.392	1109.200	0.06307	0.002	397.400
8192	6.595	0.11991	398.390	1109.220	0.06291	0.002	397.403
8193	6.596	0.14606	398.616	1108.470	0.06300	0.002	397.400
8194	6.597	0.14606	398.624	1108.450	0.06307	0.002	397.402
8195	6.596	0.17482	398.858	1107.660	0.06312	0.002	397.404
8196	6.596	0.17483	398.855	1107.680	0.06318	0.002	397.401
8197	6.599	0.20620	399.124	1106.800	0.06368	0.002	397.405
8198	6.597	0.20620	399.120	1106.800	0.06359	0.002	397.404
8199	6.598	0.24021	399.423	1105.790	0.06433	0.003	397.412
8200	6.596	0.24020	399.414	1105.800	0.06436	0.003	397.411
8201	10.677	0.11990	398.366	1144.500	0.06619	0.002	397.424
8202	10.676	0.11991	398.376	1144.470	0.06598	0.002	397.428
8203	10.681	0.14606	398.597	1143.870	0.06600	0.002	397.428
8204	10.685	0.14606	398.599	1143.900	0.06633	0.002	397.427
8205	10.680	0.17484	398.813	1143.250	0.06627	0.002	397.429

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
8206	10.682	0.17483	398.828	1143.230	0.06604	0.002	397.431
8207	10.682	0.20620	399.075	1142.520	0.06662	0.002	397.431
8208	10.682	0.20620	399.077	1142.520	0.06652	0.002	397.428
8209	10.681	0.24020	399.339	1141.760	0.06721	0.002	397.428
8210	10.684	0.24020	399.347	1141.760	0.06716	0.002	397.429
8211	16.074	0.11991	398.343	1180.240	0.06962	0.002	397.442
8212	16.076	0.11990	398.338	1180.260	0.06974	0.002	397.443
8213	16.075	0.14605	398.543	1179.750	0.06965	0.002	397.444
8214	16.074	0.14605	398.548	1179.730	0.07021	0.003	397.443
8215	16.075	0.17482	398.761	1179.210	0.06960	0.002	397.442
8216	16.071	0.17484	398.782	1179.130	0.06959	0.002	397.441
8217	16.067	0.20621	399.019	1178.530	0.06996	0.002	397.438
8218	16.072	0.20620	399.026	1178.540	0.06998	0.002	397.444
8219	16.073	0.24022	399.285	1177.900	0.07079	0.003	397.439
8220	16.069	0.24022	399.282	1177.890	0.07036	0.002	397.443
8221	22.861	0.11991	398.299	1215.440	0.07321	0.002	397.446
8222	22.862	0.11992	398.308	1215.430	0.07310	0.002	397.450
8223	22.855	0.14607	398.489	1215.000	0.07321	0.002	397.447
8224	22.854	0.14607	398.497	1214.980	0.07331	0.002	397.449
8225	22.846	0.17484	398.696	1214.510	0.07325	0.002	397.447
8226	22.845	0.17484	398.700	1214.490	0.07312	0.002	397.447
8227	22.850	0.20622	398.940	1213.990	0.07347	0.002	397.444
8228	22.848	0.20620	398.945	1213.970	0.07351	0.002	397.447
8229	22.843	0.24022	399.213	1213.360	0.07397	0.002	397.448
8230	22.837	0.24023	399.197	1213.370	0.07385	0.002	397.447
8231	31.171	0.11993	398.298	1249.780	0.07717	0.002	397.470
8232	31.174	0.11993	398.281	1249.820	0.07724	0.002	397.467
8233	31.177	0.14609	398.478	1249.450	0.07725	0.002	397.467
8234	31.179	0.14609	398.478	1249.460	0.07731	0.002	397.468
8235	31.184	0.17487	398.676	1249.090	0.07728	0.002	397.465
8236	31.187	0.17487	398.675	1249.110	0.07711	0.002	397.472
8237	31.188	0.20624	398.900	1248.670	0.07731	0.002	397.468
8238	31.195	0.20624	398.902	1248.690	0.07747	0.002	397.470
8239	31.198	0.24024	399.139	1248.240	0.07784	0.002	397.466
8240	31.204	0.24024	399.146	1248.250	0.07783	0.002	397.471
8241	41.529	0.11993	398.222	1284.620	0.08155	0.002	397.479
8242	41.533	0.11993	398.213	1284.650	0.08159	0.002	397.471
8243	41.534	0.14609	398.393	1284.330	0.08152	0.002	397.474
8244	41.544	0.14609	398.398	1284.360	0.08136	0.002	397.476
8245	41.529	0.17487	398.582	1283.990	0.08168	0.002	397.472
8246	41.531	0.17487	398.579	1284.000	0.08174	0.002	397.472
8247	41.528	0.20624	398.803	1283.600	0.08188	0.002	397.474
8248	41.518	0.20625	398.790	1283.590	0.08179	0.002	397.475
8249	41.554	0.24025	399.050	1283.240	0.08193	0.002	397.472
8250	41.631	0.24022	399.062	1283.460	0.08189	0.002	397.467
8251	53.893	0.11987	398.262	1318.570	0.08592	0.002	397.521
8252	53.906	0.11987	398.258	1318.610	0.08611	0.002	397.521
8253	53.924	0.14602	398.426	1318.380	0.08613	0.002	397.518

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
8254	53.938	0.14602	398.433	1318.410	0.08619	0.002	397.524
8255	53.956	0.17478	398.608	1318.170	0.08548	0.002	397.521
8256	53.972	0.17478	398.612	1318.210	0.08634	0.002	397.519
8257	53.990	0.20614	398.808	1317.940	0.08636	0.001	397.520
8258	54.005	0.20615	398.811	1317.970	0.08630	0.002	397.518
8259	54.022	0.24014	399.022	1317.680	0.08655	0.001	397.518
8260	54.036	0.24013	399.023	1317.710	0.08714	0.002	397.518
8261	68.444	0.11988	398.188	1352.010	0.09106	0.002	397.523
8262	68.444	0.11988	398.195	1352.000	0.09090	0.002	397.522
8263	68.445	0.14603	398.346	1351.780	0.09115	0.002	397.522
8264	68.446	0.14603	398.350	1351.780	0.09097	0.002	397.524
8265	68.446	0.17480	398.525	1351.520	0.09090	0.002	397.521
8266	68.449	0.17479	398.524	1351.530	0.09099	0.002	397.520
8267	68.449	0.20615	398.710	1351.260	0.09121	0.002	397.517
8268	68.452	0.20619	398.744	1351.220	0.09110	0.001	397.518
8269	68.453	0.24018	398.944	1350.920	0.09137	0.001	397.516
8270	68.455	0.24019	398.928	1350.950	0.09123	0.001	397.508
8271	68.461	0.11994	398.239	1351.980	0.09103	0.003	397.505
8272	68.462	0.11993	398.235	1351.980	0.09118	0.002	397.504
8273	68.462	0.14609	398.392	1351.750	0.09074	0.002	397.503
8275	68.465	0.17487	398.565	1351.500	0.09112	0.002	397.503
8276	68.464	0.17486	398.568	1351.500	0.09112	0.002	397.498
8277	68.463	0.20623	398.748	1351.230	0.09109	0.001	397.496
8278	68.466	0.20624	398.748	1351.240	0.09110	0.002	397.491
8279	68.465	0.24024	398.951	1350.940	0.09120	0.003	397.494
8280	68.465	0.24024	398.948	1350.940	0.09121	0.001	397.491
10161	2.497	0.05340	427.539	888.040	0.05280	0.005	427.013
10162	2.499	0.05340	427.551	888.020	0.05268	0.005	427.023
10163	2.500	0.06464	427.676	886.960	0.05236	0.004	427.034
10164	2.501	0.06464	427.691	886.920	0.05290	0.004	427.038
10165	2.503	0.07695	427.827	885.790	0.05270	0.004	427.046
10166	2.504	0.07696	427.835	885.790	0.05259	0.004	427.051
10167	2.505	0.08991	427.968	884.660	0.05278	0.004	427.057
10168	2.506	0.08991	427.978	884.630	0.05275	0.004	427.061
10169	2.508	0.10433	428.128	883.370	0.05312	0.004	427.068
10170	2.509	0.10434	428.140	883.320	0.05295	0.004	427.076
10171	2.514	0.05339	427.624	888.230	0.05278	0.005	427.102
10172	2.515	0.05339	427.621	888.300	0.05273	0.007	427.105
10173	2.516	0.06462	427.747	887.260	0.05277	0.004	427.112
10174	2.517	0.06462	427.752	887.240	0.05257	0.004	427.113
10175	2.518	0.07693	427.880	886.180	0.05252	0.004	427.114
10176	2.519	0.07693	427.893	886.110	0.05266	0.004	427.123
10178	2.520	0.08988	428.031	884.930	0.05296	0.004	427.129
10179	2.521	0.10430	428.177	883.660	0.05312	0.004	427.136
10180	2.521	0.10430	428.179	883.680	0.05317	0.004	427.138
10181	3.030	0.05337	427.706	912.120	0.05368	0.005	427.198
10182	3.031	0.05337	427.705	912.130	0.05348	0.005	427.201
10184	3.030	0.06461	427.807	911.360	0.05375	0.004	427.198

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10185	3.030	0.07692	427.939	910.420	0.05352	0.003	427.204
10186	3.031	0.07691	427.942	910.460	0.05363	0.004	427.202
10187	3.031	0.08986	428.067	909.560	0.05365	0.003	427.202
10188	3.032	0.08986	428.072	909.560	0.05377	0.003	427.205
10189	3.032	0.10427	428.202	908.610	0.05377	0.003	427.201
10190	3.032	0.10427	428.218	908.470	0.05378	0.003	427.209
10191	4.513	0.06461	427.805	958.450	0.05603	0.004	427.216
10193	4.514	0.07691	427.929	957.820	0.05588	0.003	427.215
10194	4.514	0.07691	427.932	957.810	0.05577	0.003	427.220
10195	4.514	0.08986	428.052	957.190	0.05583	0.003	427.217
10196	4.514	0.08986	428.047	957.220	0.05581	0.003	427.217
10197	4.514	0.10427	428.179	956.530	0.05588	0.008	427.215
10198	4.515	0.10428	428.197	956.460	0.05603	0.003	427.216
10199	4.514	0.11978	428.336	955.720	0.05602	0.003	427.214
10200	4.513	0.11977	428.327	955.740	0.05606	0.003	427.215
10201	7.120	0.07691	427.903	1009.410	0.05896	0.003	427.222
10202	7.120	0.07691	427.893	1009.430	0.05916	0.003	427.219
10203	7.121	0.08986	428.019	1008.950	0.05879	0.003	427.224
10204	7.119	0.08986	428.011	1008.950	0.05874	0.003	427.219
10205	7.118	0.10427	428.145	1008.420	0.05885	0.002	427.224
10206	7.115	0.10427	428.147	1008.370	0.05891	0.003	427.223
10207	7.117	0.11977	428.290	1007.830	0.05904	0.002	427.223
10208	7.116	0.11978	428.288	1007.830	0.05905	0.002	427.225
10209	7.117	0.13633	428.434	1007.270	0.05937	0.003	427.224
10210	7.117	0.13633	428.427	1007.300	0.05979	0.004	427.225
10211	11.182	0.08987	427.948	1061.300	0.06273	0.003	427.223
10213	11.176	0.10429	428.080	1060.830	0.06266	0.002	427.223
10214	11.182	0.10428	428.087	1060.870	0.06276	0.002	427.224
10215	11.175	0.11979	428.202	1060.430	0.06261	0.002	427.218
10216	11.176	0.11978	428.225	1060.380	0.06281	0.002	427.222
10218	11.167	0.13635	428.339	1059.930	0.06278	0.002	427.219
10219	11.169	0.15398	428.504	1059.440	0.06326	0.003	427.224
10220	11.164	0.15398	428.495	1059.420	0.06329	0.003	427.217
10221	16.947	0.08995	427.976	1111.750	0.06682	0.003	427.244
10222	16.940	0.08991	427.967	1111.730	0.06658	0.003	427.237
10224	16.944	0.11197	428.152	1111.280	0.06696	0.002	427.245
10225	16.939	0.13640	428.354	1110.730	0.06710	0.002	427.245
10226	16.941	0.13640	428.349	1110.760	0.06699	0.002	427.241
10227	16.940	0.16326	428.556	1110.230	0.06770	0.003	427.240
10229	16.940	0.19256	428.795	1109.620	0.06821	0.003	427.242
10230	16.941	0.19256	428.799	1109.610	0.06840	0.003	427.250
10231	24.716	0.08991	427.905	1160.620	0.07174	0.003	427.247
10232	24.710	0.08991	427.917	1160.560	0.07164	0.003	427.250
10233	24.711	0.11198	428.076	1160.230	0.07162	0.003	427.251
10234	24.708	0.11198	428.084	1160.190	0.07148	0.003	427.253
10235	24.710	0.13641	428.279	1159.790	0.07148	0.002	427.254
10236	24.702	0.13640	428.264	1159.780	0.07148	0.002	427.252
10237	24.702	0.16326	428.471	1159.330	0.07199	0.002	427.253

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10238	24.701	0.16326	428.468	1159.330	0.07192	0.002	427.255
10239	24.698	0.19256	428.695	1158.830	0.07263	0.002	427.249
10240	24.696	0.19256	428.694	1158.820	0.07259	0.002	427.255
10241	35.447	0.08992	427.841	1210.240	0.07672	0.003	427.251
10242	35.452	0.08991	427.826	1210.290	0.07725	0.003	427.244
10243	35.443	0.11200	428.023	1209.890	0.07682	0.003	427.252
10244	35.448	0.11200	428.048	1209.860	0.07674	0.003	427.254
10245	35.442	0.13642	428.192	1209.570	0.07657	0.002	427.248
10246	35.432	0.13642	428.186	1209.550	0.07690	0.002	427.246
10247	35.428	0.16329	428.383	1209.160	0.07707	0.002	427.245
10248	35.424	0.16329	428.382	1209.150	0.07698	0.002	427.248
10249	35.413	0.19259	428.603	1208.700	0.07744	0.002	427.246
10250	35.412	0.19259	428.594	1208.710	0.07771	0.002	427.248
10251	50.074	0.08995	427.854	1260.670	0.08310	0.004	427.257
10252	50.062	0.08995	427.844	1260.650	0.08304	0.004	427.256
10253	50.065	0.11202	427.992	1260.420	0.08258	0.003	427.254
10254	50.051	0.11203	427.990	1260.380	0.08286	0.003	427.252
10255	50.049	0.13646	428.152	1260.120	0.08294	0.002	427.255
10256	50.038	0.13646	428.153	1260.080	0.08284	0.002	427.255
10257	50.034	0.16333	428.331	1259.780	0.08315	0.002	427.256
10258	50.028	0.16334	428.343	1259.750	0.08315	0.002	427.258
10259	50.021	0.19263	428.525	1259.430	0.08314	0.002	427.254
10260	50.016	0.19265	428.522	1259.420	0.08350	0.002	427.256
10261	68.081	0.08994	427.752	1308.430	0.08944	0.004	427.259
10262	68.044	0.08994	427.747	1308.350	0.08919	0.004	427.265
10263	68.041	0.11201	427.892	1308.140	0.08963	0.003	427.264
10265	68.010	0.13645	428.046	1307.840	0.08880	0.002	427.269
10266	68.003	0.13644	428.028	1307.850	0.08941	0.002	427.261
10267	68.000	0.16336	428.272	1307.500	0.08949	0.002	427.264
10268	67.989	0.16337	428.267	1307.480	0.08932	0.002	427.268
10270	67.994	0.19267	428.450	1307.230	0.08962	0.002	427.269
10272	67.974	0.08998	427.824	1308.070	0.08939	0.004	427.257
10273	67.964	0.11205	427.952	1307.870	0.08943	0.003	427.260
10274	67.962	0.11206	427.958	1307.860	0.08899	0.003	427.261
10275	67.960	0.13649	428.111	1307.630	0.08888	0.002	427.257
10276	67.953	0.13649	428.112	1307.610	0.08943	0.002	427.254
10277	67.944	0.16338	428.269	1307.370	0.08932	0.002	427.257
10278	67.940	0.16338	428.279	1307.350	0.08945	0.002	427.259
10279	67.935	0.19270	428.457	1307.080	0.08957	0.002	427.258
10280	67.923	0.19269	428.444	1307.070	0.08956	0.002	427.255

Table S7. Thermal conductivity of supercritical R1336mzz(Z) from transient measurements with a single platinum hot wire at temperatures from (458 to 498) K.

Run Point	P_e / MPa	q / W · m^{-1}	T_e / K	ρ_e / kg · m^{-3}	λ_e / W · m^{-1} · K^{-1}	STAT	T_i / K
12043	0.478	0.03208	457.863	21.800	0.02455	0.012	456.751
12045	0.478	0.03623	458.011	21.770	0.02438	0.010	456.749
12047	0.477	0.03623	458.013	21.730	0.02437	0.010	456.752
12049	0.477	0.04063	458.178	21.730	0.02431	0.009	456.755
12051	0.477	0.04063	458.177	21.740	0.02435	0.009	456.750
12053	0.477	0.04528	458.334	21.710	0.02442	0.008	456.747
12055	0.477	0.04528	458.335	21.720	0.02433	0.008	456.747
12057	0.478	0.05019	458.511	21.740	0.02440	0.007	456.741
12059	0.478	0.05019	458.525	21.730	0.02431	0.007	456.748
12063	0.608	0.03208	457.812	28.180	0.02431	0.013	456.747
12065	0.609	0.03623	457.981	28.190	0.02427	0.010	456.748
12069	0.608	0.04063	458.132	28.170	0.02426	0.009	456.746
12071	0.609	0.04063	458.130	28.180	0.02436	0.009	456.748
12073	0.609	0.04528	458.298	28.180	0.02435	0.009	456.745
12075	0.607	0.04528	458.278	28.100	0.02408	0.008	456.747
12077	0.608	0.05019	458.446	28.100	0.02426	0.007	456.746
12082	0.805	0.03208	457.787	38.310	0.02397	0.012	456.746
12083	0.805	0.03622	457.926	38.290	0.02420	0.010	456.749
12084	0.805	0.03622	457.936	38.290	0.02413	0.010	456.748
12085	0.806	0.04063	458.071	38.300	0.02408	0.009	456.744
12087	0.806	0.04528	458.236	38.290	0.02424	0.008	456.746
12088	0.807	0.04528	458.231	38.330	0.02419	0.008	456.746
12089	0.807	0.05019	458.403	38.320	0.02418	0.007	456.751
12090	0.806	0.05019	458.398	38.300	0.02418	0.007	456.748
12091	1.010	0.03208	457.760	49.470	0.02417	0.012	456.748
12092	1.009	0.03208	457.753	49.420	0.02437	0.012	456.748
12093	1.009	0.03623	457.882	49.390	0.02420	0.010	456.741
12094	1.009	0.03623	457.900	49.390	0.02416	0.010	456.745
12095	1.009	0.04063	458.034	49.350	0.02413	0.009	456.745
12097	1.009	0.04528	458.178	49.320	0.02431	0.008	456.749
12098	1.009	0.04528	458.164	49.340	0.02423	0.008	456.745
12099	1.009	0.05019	458.336	49.300	0.02413	0.007	456.748
12100	1.009	0.05019	458.342	49.300	0.02427	0.007	456.745
12101	1.809	0.03208	457.581	101.630	0.02509	0.011	456.715
12102	1.809	0.03208	457.583	101.640	0.02512	0.012	456.716
12103	1.809	0.03623	457.707	101.580	0.02528	0.010	456.715
12104	1.809	0.03623	457.703	101.580	0.02517	0.010	456.719
12105	1.809	0.04063	457.822	101.480	0.02507	0.009	456.716
12106	1.808	0.04063	457.825	101.470	0.02511	0.009	456.715
12107	1.808	0.04528	457.955	101.400	0.02511	0.008	456.720
12108	1.808	0.04528	457.956	101.380	0.02516	0.007	456.716
12109	1.808	0.05019	458.107	101.300	0.02519	0.006	456.720
12110	1.808	0.05019	458.107	101.270	0.02526	0.007	456.721
12111	2.365	0.03208	457.459	151.630	0.02665	0.012	456.698
12112	2.365	0.03208	457.449	151.610	0.02680	0.012	456.699
12113	2.365	0.03623	457.577	151.420	0.02669	0.010	456.700

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
12115	2.364	0.04063	457.670	151.250	0.02671	0.009	456.702
12116	2.364	0.04063	457.691	151.190	0.02664	0.009	456.703
12117	2.364	0.04528	457.798	151.050	0.02670	0.007	456.703
12118	2.363	0.04528	457.805	151.000	0.02687	0.008	456.707
12120	2.363	0.05020	457.929	150.790	0.02696	0.007	456.710
12122	2.780	0.03208	457.333	204.660	0.02877	0.011	456.694
12123	2.780	0.03623	457.425	204.380	0.02907	0.010	456.692
12124	2.779	0.03623	457.446	204.300	0.02910	0.010	456.698
12125	2.779	0.04063	457.521	204.020	0.02933	0.010	456.693
12126	2.779	0.04063	457.511	204.020	0.02935	0.010	456.693
12127	2.778	0.04528	457.624	203.660	0.02944	0.008	456.697
12128	2.778	0.04528	457.623	203.590	0.02936	0.009	456.692
12129	2.778	0.05020	457.736	203.270	0.02939	0.008	456.696
12130	2.777	0.05020	457.739	203.200	0.02938	0.008	456.699
12133	3.077	0.02117	457.054	262.990	0.03295	0.020	456.694
12135	3.077	0.02456	457.118	262.720	0.03274	0.017	456.694
12136	3.077	0.02455	457.117	262.810	0.03258	0.017	456.696
12137	3.078	0.02820	457.191	262.480	0.03236	0.014	456.698
12138	3.078	0.02820	457.183	262.580	0.03273	0.014	456.699
12139	3.078	0.03210	457.256	262.210	0.03252	0.012	456.701
12140	3.079	0.03209	457.246	262.350	0.03272	0.012	456.700
12143	3.293	0.02116	456.937	332.480	0.03735	0.019	456.692
12144	3.293	0.02116	456.948	332.250	0.03783	0.019	456.696
12145	3.293	0.02455	457.036	330.990	0.03689	0.016	456.699
12146	3.293	0.02455	457.027	331.160	0.03744	0.016	456.700
12147	3.293	0.02820	457.072	330.540	0.03754	0.014	456.698
12148	3.293	0.02820	457.072	330.620	0.03747	0.014	456.699
12149	3.293	0.03209	457.136	329.840	0.03753	0.014	456.702
12150	3.293	0.03210	457.142	329.710	0.03738	0.013	456.700
12155	3.441	0.02456	456.959	410.960	0.04426	0.019	456.687
12156	3.441	0.02456	456.963	410.900	0.04462	0.019	456.687
12157	3.442	0.02820	457.007	409.720	0.04458	0.018	456.693
12158	3.442	0.02820	456.989	410.380	0.04495	0.017	456.690
12160	3.442	0.03210	457.061	408.440	0.04510	0.017	456.696
12161	3.552	0.01807	456.806	497.420	0.04772	0.029	456.692
12163	3.553	0.02116	456.863	495.360	0.04770	0.024	456.694
12164	3.553	0.02116	456.873	494.940	0.04861	0.024	456.698
12165	3.553	0.02455	456.920	493.190	0.04780	0.020	456.698
12166	3.553	0.02455	456.921	493.320	0.04812	0.020	456.696
12167	3.553	0.02820	456.968	491.630	0.04782	0.017	456.702
12168	3.553	0.02820	456.965	491.750	0.04763	0.017	456.701
12169	3.553	0.03209	457.002	490.390	0.04782	0.017	456.703
12172	3.642	0.01807	456.818	556.860	0.04759	0.029	456.705
12173	3.642	0.02116	456.880	554.580	0.04826	0.023	456.708
12174	3.642	0.02116	456.870	555.030	0.04701	0.023	456.706
12175	3.642	0.02455	456.929	552.970	0.04758	0.019	456.709
12176	3.642	0.02455	456.950	552.280	0.04707	0.018	456.703
12177	3.642	0.02820	456.969	551.660	0.04738	0.016	456.708

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
12178	3.642	0.02820	456.988	550.900	0.04726	0.017	456.706
12179	3.642	0.03209	456.995	550.770	0.04833	0.015	456.709
12180	3.642	0.03209	457.031	549.490	0.04776	0.015	456.714
12181	3.731	0.02455	456.934	597.560	0.04717	0.018	456.717
12182	3.731	0.02455	456.967	596.660	0.04765	0.018	456.715
12183	3.731	0.02820	456.993	595.920	0.04669	0.016	456.716
12184	3.731	0.02820	457.007	595.630	0.04788	0.016	456.716
12185	3.731	0.03209	457.025	595.040	0.04713	0.013	456.716
12186	3.731	0.03209	457.035	594.860	0.04758	0.013	456.719
12187	3.732	0.03624	457.077	593.700	0.04744	0.012	456.715
12188	3.732	0.03624	457.088	593.430	0.04780	0.012	456.720
12189	3.732	0.04064	457.137	591.980	0.04814	0.011	456.721
12190	3.732	0.04064	457.128	592.360	0.04772	0.011	456.720
12191	3.817	0.02455	456.973	628.580	0.04711	0.018	456.726
12192	3.817	0.02455	456.938	629.500	0.04690	0.018	456.724
12193	3.817	0.02820	456.988	628.330	0.04722	0.015	456.728
12194	3.817	0.02819	456.982	628.440	0.04686	0.015	456.726
12195	3.817	0.03209	457.044	626.910	0.04718	0.013	456.734
12196	3.817	0.03209	457.023	627.460	0.04743	0.012	456.727
12197	3.817	0.03624	457.066	626.470	0.04766	0.011	456.729
12198	3.817	0.03623	457.073	626.370	0.04721	0.011	456.728
12199	3.817	0.04064	457.120	625.210	0.04807	0.010	456.729
12201	3.943	0.03209	457.029	662.230	0.04671	0.014	456.725
12202	3.943	0.03209	457.022	662.390	0.04747	0.012	456.726
12203	3.943	0.03623	457.060	661.660	0.04747	0.011	456.726
12204	3.943	0.03623	457.083	661.260	0.04792	0.011	456.728
12205	3.943	0.04063	457.128	660.400	0.04792	0.009	456.727
12206	3.943	0.04064	457.113	660.690	0.04766	0.010	456.728
12207	3.943	0.04529	457.172	659.510	0.04764	0.008	456.732
12208	3.943	0.04528	457.170	659.600	0.04780	0.009	456.726
12209	3.943	0.05020	457.224	658.590	0.04784	0.008	456.730
12210	3.944	0.05020	457.238	658.400	0.04776	0.008	456.732
12211	4.114	0.04064	457.087	695.250	0.04792	0.009	456.710
12212	4.113	0.04064	457.092	695.090	0.04807	0.009	456.713
12214	4.113	0.04529	457.155	693.980	0.04790	0.008	456.710
12215	4.112	0.05020	457.207	693.070	0.04818	0.007	456.707
12216	4.111	0.05021	457.199	693.090	0.04808	0.007	456.709
12217	4.111	0.05537	457.263	692.030	0.04839	0.007	456.706
12219	4.110	0.06078	457.304	691.170	0.04818	0.007	456.701
12220	4.109	0.06077	457.304	691.090	0.04822	0.006	456.700
12221	4.414	0.03209	456.990	737.320	0.04880	0.013	456.697
12222	4.414	0.03209	457.000	737.200	0.04838	0.013	456.693
12223	4.414	0.04064	457.097	736.090	0.04887	0.009	456.693
12224	4.413	0.04065	457.082	736.230	0.04849	0.009	456.696
12225	4.413	0.05021	457.186	734.980	0.04858	0.007	456.693
12226	4.413	0.05021	457.185	735.040	0.04860	0.007	456.692
12227	4.413	0.06078	457.300	733.660	0.04861	0.006	456.691
12228	4.413	0.06078	457.294	733.700	0.04870	0.005	456.699

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
12229	4.413	0.07236	457.420	732.200	0.04911	0.005	456.696
12230	4.413	0.07236	457.421	732.200	0.04890	0.005	456.692
12231	4.855	0.04063	457.149	776.010	0.04979	0.009	456.754
12232	4.855	0.04063	457.151	776.030	0.04959	0.009	456.760
12233	4.856	0.05019	457.248	775.220	0.04952	0.007	456.761
12234	4.856	0.05019	457.242	775.290	0.04940	0.007	456.756
12235	4.858	0.06075	457.361	774.310	0.04988	0.005	456.760
12236	4.858	0.06076	457.354	774.420	0.04927	0.005	456.756
12237	4.859	0.07233	457.469	773.470	0.04989	0.005	456.757
12238	4.860	0.07233	457.490	773.320	0.04953	0.005	456.761
12239	4.860	0.08451	457.611	772.240	0.04974	0.004	456.761
12240	4.861	0.08450	457.608	772.360	0.04965	0.004	456.757
12241	5.548	0.05019	457.254	818.110	0.05119	0.007	456.760
12242	5.549	0.05019	457.269	818.040	0.05106	0.007	456.760
12243	5.550	0.06076	457.358	817.500	0.05142	0.005	456.762
12245	5.552	0.07233	457.477	816.780	0.05128	0.004	456.764
12246	5.554	0.07233	457.479	816.840	0.05094	0.005	456.759
12247	5.555	0.08451	457.599	816.070	0.05104	0.004	456.762
12248	5.555	0.08451	457.604	816.050	0.05104	0.004	456.761
12250	5.558	0.09807	457.751	815.180	0.05123	0.004	456.759
12251	6.625	0.05020	457.247	863.230	0.05297	0.007	456.765
12252	6.626	0.05019	457.250	863.240	0.05321	0.007	456.764
12254	6.627	0.06641	457.419	862.350	0.05301	0.005	456.769
12255	6.625	0.08451	457.579	861.390	0.05297	0.004	456.764
12256	6.625	0.08450	457.580	861.380	0.05306	0.004	456.766
12257	6.627	0.10525	457.773	860.400	0.05302	0.003	456.764
12259	6.631	0.12821	458.018	859.180	0.05334	0.003	456.771
12260	6.633	0.12820	458.009	859.310	0.05329	0.003	456.764
12261	8.213	0.06641	457.357	908.200	0.05529	0.005	456.750
12262	8.215	0.06641	457.363	908.230	0.05534	0.005	456.755
12264	8.215	0.08451	457.527	907.510	0.05517	0.004	456.751
12265	8.215	0.10525	457.730	906.600	0.05549	0.003	456.754
12266	8.215	0.10524	457.721	906.650	0.05542	0.003	456.749
12267	8.217	0.12820	457.933	905.750	0.05538	0.003	456.754
12268	8.217	0.12820	457.934	905.760	0.05539	0.004	456.753
12269	8.220	0.15345	458.158	904.830	0.05642	0.004	456.749
12270	8.219	0.15346	458.158	904.810	0.05622	0.004	456.746
12271	10.600	0.08451	457.493	955.330	0.05820	0.004	456.743
12272	10.600	0.08451	457.507	955.290	0.05824	0.004	456.748
12273	10.599	0.10526	457.669	954.700	0.05810	0.003	456.742
12274	10.599	0.10525	457.678	954.660	0.05812	0.003	456.747
12275	10.601	0.12821	457.882	953.970	0.05839	0.003	456.746
12276	10.603	0.12821	457.882	953.990	0.05823	0.003	456.749
12277	10.601	0.15346	458.101	953.180	0.05904	0.003	456.746
12278	10.604	0.15345	458.112	953.180	0.05911	0.003	456.747
12281	13.890	0.10526	457.637	1001.600	0.06129	0.003	456.749
12282	13.888	0.10525	457.608	1001.660	0.06142	0.003	456.742
12283	13.887	0.12821	457.811	1001.050	0.06133	0.003	456.743

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
12284	13.888	0.12822	457.819	1001.030	0.06127	0.003	456.743
12285	13.887	0.15347	458.033	1000.380	0.06221	0.003	456.746
12286	13.888	0.15346	458.034	1000.380	0.06202	0.003	456.747
12287	13.889	0.18100	458.275	999.680	0.06302	0.004	456.743
12288	13.889	0.18100	458.260	999.720	0.06314	0.004	456.743
12291	18.565	0.10526	457.584	1049.850	0.06467	0.003	456.746
12292	18.559	0.10526	457.566	1049.840	0.06507	0.003	456.744
12294	18.562	0.12823	457.787	1049.310	0.06499	0.003	456.745
12295	18.562	0.15349	457.980	1048.830	0.06543	0.003	456.747
12296	18.559	0.15348	457.988	1048.780	0.06564	0.003	456.745
12297	18.559	0.18103	458.206	1048.230	0.06655	0.003	456.749
12301	24.753	0.08453	457.386	1097.230	0.06906	0.004	456.750
12303	24.753	0.10528	457.542	1096.900	0.06874	0.003	456.745
12304	24.758	0.10528	457.557	1096.900	0.06874	0.003	456.749
12305	24.757	0.12824	457.730	1096.510	0.06898	0.003	456.746
12306	24.749	0.12824	457.726	1096.470	0.06905	0.003	456.745
12307	24.745	0.15349	457.922	1096.020	0.07070	0.004	456.744
12308	24.749	0.15351	457.908	1096.070	0.06941	0.003	456.745
12309	24.746	0.18104	458.135	1095.560	0.07024	0.003	456.744
12310	24.746	0.18104	458.116	1095.600	0.07024	0.003	456.739
12312	33.292	0.08453	457.321	1145.820	0.07319	0.005	456.748
12313	33.285	0.10528	457.489	1145.470	0.07373	0.003	456.755
12314	33.288	0.10528	457.475	1145.510	0.07348	0.003	456.750
12315	33.273	0.12825	457.632	1145.140	0.07364	0.003	456.751
12316	33.275	0.12825	457.644	1145.130	0.07531	0.004	456.756
12317	33.266	0.15350	457.835	1144.730	0.07408	0.003	456.753
12318	33.262	0.15350	457.829	1144.720	0.07404	0.003	456.753
12319	33.259	0.18104	458.033	1144.320	0.07461	0.003	456.752
12320	33.264	0.18107	458.061	1144.290	0.07458	0.003	456.754
12321	43.771	0.08454	457.278	1191.320	0.07871	0.005	456.755
12322	43.753	0.08455	457.267	1191.270	0.07839	0.005	456.755
12323	43.745	0.10529	457.412	1191.000	0.07834	0.004	456.748
12324	43.744	0.10529	457.413	1191.000	0.07817	0.004	456.752
12325	43.728	0.12828	457.607	1190.610	0.07860	0.003	456.751
12326	43.726	0.12829	457.614	1190.600	0.07839	0.003	456.753
12327	43.725	0.15354	457.781	1190.310	0.07868	0.003	456.747
12328	43.712	0.15355	457.788	1190.250	0.07880	0.003	456.755
12329	43.714	0.18110	457.978	1189.940	0.07909	0.003	456.750
12330	43.710	0.18109	457.977	1189.930	0.07919	0.003	456.752
12331	57.364	0.08458	457.292	1237.240	0.08460	0.005	456.756
12332	57.362	0.08458	457.285	1237.250	0.08409	0.005	456.755
12333	57.357	0.10533	457.411	1237.050	0.08425	0.004	456.753
12335	57.354	0.12832	457.577	1236.790	0.08372	0.003	456.755
12336	57.351	0.12830	457.561	1236.810	0.08367	0.003	456.751
12337	57.352	0.15359	457.731	1236.560	0.08387	0.003	456.754
12338	57.346	0.15358	457.730	1236.540	0.08420	0.003	456.751
12339	57.348	0.18113	457.909	1236.280	0.08307	0.003	456.750
12340	57.342	0.18113	457.916	1236.260	0.08428	0.002	456.749

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
12342	68.087	0.08459	457.277	1267.060	0.08757	0.005	456.759
12343	68.077	0.10536	457.394	1266.880	0.08762	0.004	456.747
12344	68.072	0.10536	457.403	1266.850	0.08818	0.004	456.760
12345	68.072	0.12833	457.550	1266.650	0.08752	0.003	456.755
12346	68.068	0.12833	457.540	1266.650	0.08729	0.004	456.753
12347	68.066	0.15361	457.700	1266.430	0.08758	0.003	456.754
12348	68.065	0.15361	457.714	1266.410	0.08791	0.003	456.753
12349	68.059	0.18118	457.887	1266.150	0.08808	0.002	456.760
12350	68.051	0.18117	457.889	1266.130	0.08828	0.003	456.759
13061	0.622	0.03085	477.826	27.340	0.02596	0.013	476.836
13063	0.625	0.03085	477.815	27.460	0.02608	0.014	476.841
13065	0.626	0.03484	477.946	27.520	0.02606	0.011	476.840
13067	0.629	0.03484	477.957	27.630	0.02588	0.011	476.846
13069	0.631	0.03908	478.106	27.720	0.02603	0.010	476.845
13071	0.633	0.03907	478.115	27.830	0.02596	0.010	476.844
13073	0.635	0.04355	478.248	27.890	0.02600	0.008	476.836
13075	0.637	0.04355	478.245	27.980	0.02601	0.008	476.844
13077	0.638	0.04827	478.384	28.060	0.02606	0.007	476.840
13079	0.640	0.04827	478.400	28.150	0.02607	0.008	476.845
13081	0.820	0.03086	477.792	36.800	0.02591	0.013	476.844
13083	0.820	0.03484	477.914	36.820	0.02598	0.011	476.839
13084	0.821	0.03484	477.920	36.860	0.02607	0.011	476.837
13085	0.821	0.03907	478.044	36.870	0.02596	0.010	476.839
13086	0.822	0.03907	478.032	36.890	0.02592	0.009	476.831
13087	0.821	0.04354	478.170	36.850	0.02595	0.008	476.831
13088	0.822	0.04355	478.172	36.870	0.02593	0.008	476.835
13089	0.822	0.04827	478.331	36.870	0.02595	0.007	476.831
13090	0.823	0.04827	478.349	36.910	0.02599	0.007	476.834
13091	1.019	0.03085	477.750	46.810	0.02607	0.013	476.839
13092	1.019	0.03086	477.738	46.830	0.02594	0.013	476.837
13093	1.019	0.03484	477.862	46.800	0.02607	0.011	476.837
13094	1.018	0.03484	477.878	46.770	0.02577	0.011	476.839
13096	1.019	0.03907	477.998	46.810	0.02599	0.010	476.836
13097	1.019	0.04355	478.137	46.780	0.02594	0.008	476.836
13098	1.019	0.04355	478.143	46.790	0.02585	0.008	476.838
13099	1.019	0.04827	478.295	46.760	0.02607	0.007	476.841
13102	1.847	0.03086	477.629	94.680	0.02648	0.013	476.817
13103	1.847	0.03484	477.733	94.630	0.02664	0.011	476.819
13104	1.846	0.03484	477.735	94.610	0.02663	0.011	476.822
13105	1.846	0.03908	477.845	94.510	0.02663	0.009	476.819
13107	1.846	0.04355	477.979	94.490	0.02664	0.008	476.819
13108	1.846	0.04355	477.982	94.470	0.02665	0.008	476.820
13109	1.846	0.04827	478.119	94.410	0.02655	0.007	476.818
13110	1.846	0.04827	478.106	94.420	0.02665	0.007	476.824
13111	2.482	0.03086	477.500	141.380	0.02757	0.013	476.806
13112	2.482	0.03086	477.509	141.390	0.02784	0.013	476.802
13113	2.482	0.03484	477.603	141.290	0.02780	0.011	476.806
13114	2.482	0.03484	477.635	141.250	0.02779	0.011	476.805

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
13115	2.482	0.03908	477.729	141.210	0.02783	0.009	476.804
13116	2.482	0.03908	477.718	141.210	0.02768	0.009	476.803
13117	2.482	0.04355	477.837	141.110	0.02782	0.008	476.803
13118	2.482	0.04355	477.829	141.090	0.02783	0.008	476.805
13119	2.482	0.04827	477.951	141.000	0.02779	0.007	476.803
13120	2.482	0.04827	477.953	141.000	0.02774	0.007	476.810
13121	3.031	0.03086	477.436	193.520	0.02948	0.012	476.785
13123	3.030	0.03485	477.527	193.300	0.02964	0.010	476.784
13124	3.030	0.03485	477.533	193.250	0.02946	0.011	476.783
13125	3.029	0.03908	477.621	193.050	0.02959	0.010	476.788
13126	3.029	0.03908	477.616	193.040	0.02973	0.009	476.788
13128	3.029	0.04355	477.735	192.770	0.02945	0.008	476.794
13129	3.028	0.04828	477.820	192.600	0.02972	0.007	476.785
13130	3.028	0.04828	477.825	192.540	0.02976	0.007	476.787
13131	3.416	0.03086	477.329	241.030	0.03174	0.013	476.768
13133	3.416	0.03485	477.422	240.650	0.03166	0.011	476.771
13134	3.415	0.03485	477.420	240.620	0.03153	0.010	476.774
13135	3.415	0.03908	477.513	240.250	0.03172	0.010	476.776
13136	3.414	0.03908	477.507	240.220	0.03166	0.009	476.773
13138	3.413	0.04356	477.604	239.840	0.03184	0.008	476.780
13139	3.413	0.04828	477.689	239.550	0.03173	0.008	476.776
13140	3.413	0.04828	477.696	239.480	0.03183	0.008	476.779
13141	3.798	0.03086	477.280	301.830	0.03460	0.012	476.792
13142	3.798	0.03086	477.261	301.970	0.03466	0.012	476.789
13144	3.798	0.03484	477.346	301.570	0.03484	0.011	476.791
13145	3.798	0.03908	477.433	301.090	0.03472	0.010	476.797
13146	3.798	0.03908	477.418	301.200	0.03466	0.009	476.795
13147	3.798	0.04355	477.512	300.740	0.03463	0.009	476.801
13148	3.798	0.04355	477.504	300.780	0.03468	0.009	476.799
13149	3.798	0.04827	477.582	300.420	0.03470	0.008	476.799
13150	3.798	0.04827	477.600	300.330	0.03490	0.008	476.801
13151	4.063	0.03086	477.262	355.370	0.03680	0.012	476.811
13152	4.063	0.03085	477.252	355.440	0.03704	0.012	476.812
13153	4.064	0.03484	477.322	354.950	0.03693	0.010	476.813
13154	4.064	0.03484	477.310	355.090	0.03704	0.011	476.811
13155	4.064	0.03908	477.390	354.550	0.03722	0.010	476.814
13156	4.064	0.03908	477.391	354.630	0.03714	0.010	476.817
13157	4.065	0.04355	477.457	354.150	0.03727	0.009	476.817
13158	4.065	0.04355	477.456	354.200	0.03711	0.009	476.821
13159	4.065	0.04827	477.529	353.720	0.03740	0.009	476.820
13160	4.065	0.04827	477.533	353.730	0.03735	0.009	476.819
13161	4.272	0.03086	477.214	404.530	0.03949	0.012	476.808
13162	4.272	0.03086	477.216	404.560	0.03844	0.012	476.816
13164	4.273	0.03484	477.268	404.180	0.03932	0.011	476.811
13165	4.273	0.03908	477.336	403.560	0.03941	0.010	476.811
13166	4.274	0.03907	477.327	403.740	0.03887	0.010	476.816
13167	4.274	0.04355	477.398	403.060	0.03948	0.009	476.814
13168	4.274	0.04355	477.400	403.090	0.03969	0.009	476.817

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
13169	4.274	0.04827	477.464	402.500	0.03945	0.009	476.817
13170	4.274	0.04827	477.458	402.610	0.03928	0.009	476.817
13171	4.490	0.03086	477.201	459.050	0.04114	0.012	476.826
13172	4.490	0.03085	477.188	459.240	0.04099	0.012	476.815
13173	4.490	0.03484	477.247	458.590	0.04089	0.011	476.816
13174	4.490	0.03484	477.263	458.430	0.04121	0.010	476.825
13175	4.490	0.03908	477.301	458.000	0.04136	0.010	476.827
13176	4.490	0.03908	477.306	457.940	0.04147	0.010	476.819
13177	4.490	0.04355	477.361	457.280	0.04127	0.009	476.820
13178	4.490	0.04355	477.367	457.260	0.04120	0.009	476.820
13179	4.490	0.04827	477.421	456.610	0.04157	0.009	476.824
13180	4.491	0.04827	477.430	456.550	0.04171	0.009	476.822
13181	4.683	0.03085	477.166	506.640	0.04305	0.012	476.820
13182	4.683	0.03085	477.155	506.830	0.04248	0.012	476.818
13183	4.684	0.03484	477.203	506.270	0.04219	0.011	476.818
13184	4.684	0.03484	477.227	505.990	0.04247	0.011	476.825
13185	4.684	0.03907	477.270	505.480	0.04281	0.010	476.822
13186	4.684	0.03907	477.275	505.490	0.04283	0.009	476.827
13188	4.685	0.04354	477.323	504.950	0.04291	0.009	476.829
13189	4.685	0.04827	477.393	504.090	0.04317	0.008	476.824
13190	4.685	0.04827	477.384	504.260	0.04324	0.008	476.826
13191	4.892	0.03085	477.172	551.820	0.04444	0.012	476.839
13192	4.892	0.03085	477.180	551.760	0.04398	0.013	476.837
13194	4.893	0.03484	477.231	551.160	0.04415	0.011	476.837
13195	4.893	0.03907	477.283	550.590	0.04405	0.010	476.841
13196	4.893	0.03907	477.287	550.540	0.04404	0.010	476.845
13197	4.893	0.04354	477.333	550.030	0.04424	0.009	476.842
13199	4.894	0.04827	477.386	549.440	0.04408	0.008	476.841
13200	4.894	0.04826	477.405	549.240	0.04397	0.008	476.842
13201	5.121	0.03085	477.135	593.570	0.04450	0.013	476.836
13202	5.121	0.03085	477.146	593.480	0.04532	0.012	476.836
13204	5.121	0.03484	477.200	592.880	0.04572	0.011	476.836
13205	5.121	0.03907	477.249	592.370	0.04523	0.009	476.840
13206	5.121	0.03907	477.253	592.360	0.04561	0.009	476.837
13207	5.122	0.04354	477.300	591.830	0.04539	0.008	476.839
13208	5.122	0.04354	477.304	591.800	0.04570	0.009	476.837
13209	5.122	0.04826	477.364	591.130	0.04513	0.007	476.844
13210	5.122	0.04826	477.349	591.280	0.04501	0.008	476.840
13211	5.423	0.03086	477.170	636.610	0.04543	0.013	476.840
13212	5.423	0.03085	477.181	636.530	0.04652	0.013	476.835
13213	5.424	0.03484	477.212	636.260	0.04663	0.011	476.833
13214	5.424	0.03484	477.209	636.260	0.04631	0.011	476.835
13215	5.424	0.03908	477.261	635.770	0.04653	0.009	476.840
13216	5.424	0.03908	477.280	635.600	0.04647	0.010	476.837
13217	5.424	0.04354	477.325	635.140	0.04630	0.009	476.836
13218	5.424	0.04355	477.328	635.130	0.04606	0.008	476.844
13219	5.424	0.04827	477.397	634.470	0.04630	0.007	476.842
13220	5.424	0.04827	477.371	634.720	0.04615	0.007	476.836

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13221	5.816	0.03907	477.249	678.780	0.04777	0.009	476.843
13222	5.816	0.03907	477.237	678.910	0.04795	0.010	476.841
13224	5.816	0.04354	477.297	678.390	0.04734	0.008	476.845
13225	5.815	0.04826	477.347	677.900	0.04734	0.008	476.841
13226	5.815	0.04826	477.336	677.960	0.04754	0.007	476.842
13227	5.815	0.05323	477.395	677.450	0.04740	0.007	476.843
13229	5.815	0.05842	477.465	676.850	0.04738	0.006	476.845
13230	5.815	0.05842	477.470	676.790	0.04746	0.006	476.848
13231	6.353	0.03907	477.222	722.670	0.04919	0.010	476.833
13232	6.353	0.03907	477.215	722.690	0.04867	0.010	476.834
13233	6.353	0.04354	477.269	722.330	0.04899	0.008	476.839
13234	6.354	0.04354	477.282	722.260	0.04898	0.008	476.842
13235	6.353	0.04826	477.321	721.940	0.04872	0.007	476.837
13236	6.353	0.04826	477.333	721.860	0.04902	0.007	476.834
13237	6.353	0.05322	477.375	721.550	0.04917	0.007	476.839
13238	6.353	0.05323	477.378	721.530	0.04915	0.006	476.835
13239	6.353	0.05843	477.432	721.110	0.04902	0.006	476.840
13240	6.353	0.05842	477.448	721.010	0.04913	0.006	476.841
13241	7.117	0.03907	477.240	767.700	0.05070	0.010	476.841
13242	7.117	0.03907	477.226	767.800	0.05027	0.010	476.834
13243	7.118	0.04354	477.269	767.570	0.05052	0.009	476.835
13244	7.117	0.04354	477.261	767.610	0.05086	0.008	476.833
13245	7.118	0.04827	477.335	767.180	0.05038	0.007	476.836
13246	7.118	0.04827	477.337	767.200	0.05073	0.007	476.840
13247	7.119	0.05323	477.381	766.940	0.05084	0.007	476.839
13248	7.118	0.05323	477.384	766.900	0.05115	0.007	476.843
13249	7.119	0.05843	477.445	766.550	0.05047	0.006	476.836
13250	7.119	0.05843	477.438	766.590	0.05087	0.006	476.839
13251	8.127	0.03907	477.186	811.390	0.05232	0.010	476.837
13253	8.125	0.04827	477.280	810.860	0.05211	0.008	476.835
13254	8.125	0.04827	477.293	810.760	0.05248	0.008	476.841
13255	8.124	0.05843	477.374	810.310	0.05301	0.006	476.829
13256	8.123	0.05843	477.375	810.290	0.05233	0.006	476.837
13257	8.122	0.06955	477.500	809.620	0.05255	0.005	476.831
13258	8.122	0.06955	477.488	809.670	0.05262	0.005	476.836
13259	8.121	0.08126	477.614	808.970	0.05236	0.004	476.834
13260	8.121	0.08126	477.611	808.990	0.05222	0.004	476.835
13261	9.589	0.04824	477.417	856.060	0.05462	0.008	476.982
13262	9.589	0.04824	477.417	856.060	0.05439	0.008	476.975
13263	9.593	0.05840	477.517	855.740	0.05387	0.006	476.975
13264	9.596	0.05840	477.532	855.760	0.05430	0.006	476.974
13265	9.599	0.06952	477.633	855.410	0.05436	0.005	476.973
13266	9.602	0.06952	477.631	855.490	0.05432	0.005	476.972
13267	9.604	0.08122	477.746	855.070	0.05432	0.004	476.967
13268	9.607	0.08122	477.736	855.180	0.05417	0.004	476.972
13269	9.610	0.09425	477.854	854.770	0.05431	0.003	476.961
13270	9.612	0.09425	477.854	854.820	0.05423	0.004	476.961
13271	11.445	0.04825	477.360	899.040	0.05644	0.008	476.966

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13272	11.452	0.04824	477.370	899.140	0.05646	0.008	476.964
13273	11.454	0.06383	477.538	898.580	0.05655	0.006	476.971
13274	11.455	0.06383	477.529	898.630	0.05676	0.006	476.965
13276	11.452	0.08122	477.669	898.060	0.05635	0.004	476.961
13277	11.452	0.10116	477.864	897.350	0.05623	0.003	476.958
13278	11.456	0.10116	477.882	897.360	0.05665	0.003	476.965
13279	11.458	0.12323	478.096	896.630	0.05636	0.003	476.959
13281	14.040	0.06383	477.465	943.230	0.05905	0.006	476.934
13282	14.042	0.06383	477.471	943.230	0.05920	0.006	476.937
13283	14.046	0.08123	477.640	942.760	0.05959	0.004	476.941
13284	14.046	0.08123	477.624	942.820	0.05923	0.004	476.937
13285	14.032	0.10117	477.782	942.120	0.05921	0.003	476.937
13286	14.017	0.10117	477.754	941.980	0.05914	0.003	476.926
13287	14.008	0.12325	477.963	941.200	0.05920	0.003	476.936
13288	14.002	0.12324	477.961	941.120	0.05914	0.003	476.929
13289	13.996	0.14752	478.161	940.400	0.05918	0.003	476.932
13290	13.991	0.14752	478.166	940.310	0.05942	0.003	476.928
13291	13.882	0.06387	477.437	940.950	0.05942	0.006	476.885
13292	13.873	0.06386	477.419	940.860	0.05867	0.006	476.881
13293	13.865	0.08127	477.583	940.230	0.05906	0.004	476.878
13294	13.858	0.08127	477.579	940.130	0.05913	0.004	476.877
13296	13.843	0.10122	477.733	939.430	0.05917	0.003	476.873
13297	13.835	0.12329	477.940	938.650	0.05888	0.003	476.860
13298	13.830	0.12330	477.933	938.600	0.05909	0.003	476.859
13299	13.820	0.14759	478.158	937.740	0.05890	0.003	476.862
13300	13.812	0.14759	478.155	937.630	0.05998	0.004	476.860
13301	17.392	0.08127	477.469	986.490	0.06219	0.004	476.837
13302	17.384	0.08127	477.487	986.360	0.06177	0.005	476.834
13303	17.377	0.10122	477.642	985.850	0.06203	0.003	476.831
13304	17.368	0.10122	477.630	985.790	0.06187	0.003	476.833
13305	17.363	0.12330	477.842	985.160	0.06213	0.003	476.834
13306	17.356	0.12330	477.815	985.150	0.06201	0.003	476.830
13307	17.349	0.14759	478.039	984.470	0.06199	0.002	476.832
13308	17.343	0.14757	478.032	984.430	0.06216	0.003	476.827
13309	17.339	0.17406	478.259	983.770	0.06271	0.003	476.830
13310	17.330	0.17406	478.262	983.660	0.06257	0.003	476.834
13311	22.606	0.08129	477.475	1036.700	0.06625	0.005	476.832
13313	22.591	0.10124	477.626	1036.240	0.06573	0.004	476.831
13314	22.586	0.10124	477.619	1036.210	0.06606	0.003	476.837
13315	22.580	0.12332	477.806	1035.730	0.06584	0.003	476.834
13316	22.569	0.12332	477.799	1035.660	0.06571	0.003	476.834
13317	22.568	0.14761	478.015	1035.150	0.06577	0.004	476.834
13318	22.561	0.14761	478.009	1035.110	0.06595	0.003	476.833
13319	22.555	0.17410	478.219	1034.580	0.06665	0.003	476.834
13320	22.549	0.17410	478.228	1034.510	0.06668	0.003	476.838
13321	28.120	0.10123	477.584	1077.000	0.06920	0.003	476.841
13322	28.116	0.10124	477.560	1077.020	0.06955	0.004	476.838
13323	28.109	0.12333	477.757	1076.580	0.06922	0.003	476.841

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
13324	28.107	0.12333	477.751	1076.580	0.06908	0.003	476.836
13326	28.109	0.14762	477.956	1076.180	0.06940	0.003	476.845
13327	28.104	0.17410	478.168	1075.710	0.07007	0.003	476.843
13328	28.106	0.17410	478.158	1075.750	0.07033	0.003	476.837
13329	28.104	0.20281	478.370	1075.300	0.07094	0.003	476.838
13331	36.028	0.10124	477.553	1122.440	0.07385	0.004	476.848
13332	36.024	0.10125	477.547	1122.430	0.07346	0.004	476.844
13333	36.019	0.12333	477.716	1122.100	0.07328	0.003	476.845
13334	36.015	0.12333	477.714	1122.080	0.07240	0.010	476.844
13335	36.011	0.14763	477.877	1121.770	0.07381	0.003	476.842
13336	36.008	0.14764	477.902	1121.710	0.07389	0.003	476.848
13337	36.002	0.17414	478.086	1121.350	0.07454	0.003	476.844
13338	35.996	0.17413	478.094	1121.310	0.07432	0.003	476.848
13339	35.994	0.20285	478.307	1120.920	0.07451	0.006	476.848
13340	35.993	0.20284	478.319	1120.890	0.07503	0.003	476.851
13341	45.420	0.12334	477.640	1164.590	0.07769	0.003	476.840
13342	45.412	0.12336	477.676	1164.510	0.07804	0.003	476.845
13343	45.412	0.14767	477.849	1164.230	0.07833	0.003	476.844
13344	45.412	0.14767	477.851	1164.220	0.07832	0.003	476.841
13345	45.403	0.17416	478.040	1163.880	0.07813	0.003	476.848
13346	45.402	0.17416	478.038	1163.880	0.07878	0.003	476.848
13347	45.397	0.20287	478.220	1163.570	0.07911	0.003	476.844
13348	45.393	0.20288	478.244	1163.520	0.07906	0.003	476.841
13349	45.388	0.23373	478.430	1163.200	0.07949	0.002	476.842
13350	45.385	0.23374	478.424	1163.200	0.07896	0.003	476.842
13351	57.649	0.12339	477.648	1208.410	0.08263	0.003	476.851
13352	57.645	0.12338	477.628	1208.420	0.08265	0.003	476.845
13353	57.642	0.14769	477.796	1208.170	0.08302	0.003	476.848
13355	57.635	0.17419	477.973	1207.890	0.08346	0.003	476.853
13356	57.640	0.17419	477.982	1207.900	0.08360	0.003	476.850
13357	57.631	0.20291	478.166	1207.600	0.08396	0.003	476.851
13358	57.626	0.20290	478.168	1207.590	0.08395	0.003	476.852
13359	57.623	0.23378	478.373	1207.280	0.08347	0.004	476.853
13360	57.625	0.23378	478.359	1207.310	0.08430	0.002	476.853
13361	68.299	0.12339	477.590	1240.000	0.08693	0.003	476.856
13362	68.294	0.12340	477.589	1239.990	0.08687	0.003	476.856
13363	68.279	0.14769	477.733	1239.750	0.08594	0.004	476.858
13364	68.279	0.14770	477.756	1239.720	0.08667	0.003	476.857
13365	68.268	0.17420	477.905	1239.490	0.08756	0.003	476.857
13366	68.263	0.17421	477.947	1239.420	0.08711	0.003	476.860
13367	68.258	0.20293	478.106	1239.200	0.08758	0.002	476.856
13368	68.252	0.20292	478.097	1239.190	0.08742	0.003	476.858
13369	68.244	0.23380	478.300	1238.900	0.08806	0.002	476.861
13370	68.239	0.23381	478.298	1238.890	0.08786	0.002	476.859
14041	0.487	0.02966	497.572	20.110	0.02792	0.015	496.643
14045	0.492	0.03349	497.714	20.320	0.02777	0.013	496.663
14047	0.495	0.03348	497.698	20.460	0.02818	0.013	496.661
14049	0.498	0.03755	497.838	20.580	0.02803	0.011	496.666

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
14051	0.501	0.03755	497.838	20.710	0.02806	0.011	496.663
14053	0.504	0.04185	497.986	20.850	0.02793	0.009	496.664
14055	0.508	0.04185	497.991	21.000	0.02794	0.010	496.668
14057	0.511	0.04639	498.125	21.120	0.02796	0.009	496.663
14059	0.515	0.04639	498.118	21.290	0.02789	0.008	496.664
14061	0.656	0.02965	497.550	27.510	0.02786	0.015	496.661
14063	0.662	0.02965	497.549	27.760	0.02788	0.015	496.658
14065	0.668	0.03349	497.656	28.030	0.02773	0.013	496.649
14067	0.674	0.03349	497.657	28.300	0.02765	0.012	496.656
14069	0.680	0.03755	497.789	28.550	0.02796	0.011	496.650
14071	0.686	0.03755	497.758	28.830	0.02785	0.011	496.645
14073	0.692	0.04185	497.903	29.080	0.02782	0.009	496.642
14075	0.698	0.04185	497.893	29.370	0.02787	0.009	496.642
14077	0.704	0.04639	498.023	29.620	0.02779	0.008	496.635
14079	0.711	0.04639	498.026	29.910	0.02773	0.008	496.633
14081	0.865	0.03756	497.738	36.930	0.02785	0.010	496.625
14082	0.866	0.03756	497.720	37.010	0.02776	0.011	496.632
14083	0.868	0.04185	497.857	37.080	0.02764	0.009	496.626
14084	0.870	0.04185	497.858	37.160	0.02762	0.009	496.628
14085	0.872	0.04640	497.985	37.230	0.02759	0.008	496.628
14086	0.874	0.04640	497.981	37.330	0.02765	0.008	496.628
14087	0.875	0.05117	498.145	37.390	0.02762	0.007	496.632
14088	0.877	0.05117	498.127	37.480	0.02759	0.007	496.626
14089	0.879	0.05616	498.281	37.550	0.02765	0.006	496.627
14090	0.881	0.05616	498.290	37.630	0.02769	0.006	496.632
14092	1.025	0.03755	497.686	44.440	0.02778	0.011	496.629
14093	1.026	0.04185	497.806	44.500	0.02766	0.009	496.626
14094	1.028	0.04185	497.810	44.560	0.02767	0.009	496.629
14095	1.029	0.04639	497.969	44.620	0.02768	0.008	496.636
14097	1.032	0.05116	498.089	44.740	0.02767	0.007	496.624
14098	1.033	0.05116	498.100	44.800	0.02770	0.007	496.633
14099	1.035	0.05616	498.249	44.870	0.02767	0.006	496.630
14100	1.036	0.05616	498.239	44.920	0.02756	0.006	496.634
14101	1.882	0.03756	497.531	89.330	0.02812	0.010	496.600
14102	1.883	0.03755	497.546	89.380	0.02806	0.010	496.604
14103	1.884	0.04186	497.684	89.390	0.02805	0.008	496.607
14104	1.885	0.04186	497.678	89.470	0.02816	0.009	496.605
14105	1.886	0.04640	497.792	89.490	0.02801	0.008	496.609
14106	1.887	0.04639	497.785	89.540	0.02817	0.007	496.609
14107	1.888	0.05116	497.912	89.550	0.02799	0.007	496.605
14108	1.889	0.05116	497.908	89.600	0.02806	0.006	496.612
14109	1.890	0.05616	498.058	89.620	0.02807	0.006	496.613
14110	1.891	0.05617	498.064	89.660	0.02804	0.006	496.615
14112	2.572	0.03756	497.473	132.980	0.02891	0.010	496.608
14113	2.573	0.04186	497.562	132.940	0.02922	0.009	496.605
14114	2.573	0.04186	497.581	132.970	0.02930	0.009	496.606
14115	2.573	0.04640	497.688	132.920	0.02892	0.007	496.612
14117	2.574	0.05117	497.796	132.910	0.02915	0.007	496.609

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14118	2.575	0.05116	497.800	132.930	0.02909	0.007	496.610
14119	2.575	0.05616	497.916	132.880	0.02917	0.006	496.609
14120	2.575	0.05616	497.911	132.910	0.02906	0.006	496.608
14121	3.167	0.03756	497.391	178.330	0.03029	0.010	496.608
14122	3.167	0.03756	497.381	178.380	0.03038	0.010	496.608
14124	3.168	0.04185	497.493	178.300	0.03056	0.009	496.610
14125	3.168	0.04640	497.585	178.220	0.03033	0.008	496.610
14126	3.168	0.04640	497.598	178.230	0.03048	0.008	496.614
14127	3.168	0.05116	497.710	178.120	0.03040	0.007	496.616
14129	3.169	0.05616	497.814	178.050	0.03039	0.006	496.623
14130	3.170	0.05616	497.809	178.100	0.03036	0.006	496.620
14131	3.679	0.02967	497.146	225.680	0.03215	0.014	496.565
14132	3.679	0.02968	497.151	225.690	0.03182	0.014	496.561
14133	3.679	0.03351	497.224	225.550	0.03204	0.011	496.562
14134	3.679	0.03351	497.232	225.570	0.03172	0.011	496.566
14135	3.680	0.03758	497.303	225.530	0.03198	0.010	496.571
14136	3.681	0.03758	497.284	225.610	0.03208	0.010	496.561
14137	3.681	0.04188	497.375	225.430	0.03222	0.009	496.573
14138	3.681	0.04188	497.395	225.440	0.03216	0.009	496.573
14139	3.682	0.04642	497.476	225.350	0.03218	0.008	496.576
14140	3.682	0.04642	497.490	225.410	0.03204	0.008	496.580
14141	4.102	0.02967	497.088	271.790	0.03376	0.014	496.584
14142	4.102	0.02967	497.108	271.800	0.03377	0.013	496.582
14143	4.103	0.03350	497.164	271.670	0.03367	0.011	496.589
14144	4.103	0.03350	497.152	271.740	0.03393	0.012	496.585
14145	4.103	0.03758	497.266	271.480	0.03392	0.010	496.589
14146	4.103	0.03758	497.234	271.590	0.03406	0.010	496.592
14147	4.104	0.04188	497.333	271.320	0.03403	0.009	496.590
14148	4.104	0.04187	497.323	271.350	0.03411	0.009	496.599
14149	4.104	0.04642	497.415	271.100	0.03410	0.008	496.597
14150	4.104	0.04642	497.415	271.160	0.03390	0.008	496.598
14151	4.497	0.02967	497.058	321.460	0.03584	0.013	496.594
14152	4.497	0.02967	497.060	321.490	0.03588	0.013	496.595
14154	4.498	0.03350	497.122	321.300	0.03587	0.011	496.598
14155	4.498	0.03758	497.183	321.090	0.03581	0.010	496.590
14156	4.498	0.03758	497.204	321.070	0.03592	0.010	496.596
14157	4.498	0.04187	497.279	320.780	0.03599	0.009	496.601
14159	4.499	0.04642	497.341	320.600	0.03578	0.008	496.598
14160	4.499	0.04641	497.354	320.510	0.03606	0.008	496.599
14161	4.835	0.02967	497.017	368.840	0.03810	0.013	496.589
14162	4.836	0.02967	497.014	368.880	0.03791	0.014	496.592
14163	4.836	0.03350	497.079	368.580	0.03747	0.011	496.592
14164	4.837	0.03350	497.092	368.610	0.03768	0.011	496.600
14165	4.837	0.03757	497.162	368.280	0.03752	0.010	496.597
14166	4.837	0.03757	497.148	368.380	0.03729	0.010	496.601
14167	4.837	0.04187	497.225	368.010	0.03781	0.009	496.608
14168	4.837	0.04187	497.224	367.980	0.03756	0.009	496.605
14169	4.837	0.04642	497.283	367.710	0.03787	0.008	496.606

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14170	4.837	0.04642	497.300	367.670	0.03783	0.008	496.608
14172	5.178	0.02966	497.007	419.420	0.03984	0.013	496.613
14173	5.179	0.03350	497.063	419.160	0.03968	0.011	496.609
14174	5.179	0.03350	497.072	419.150	0.03988	0.011	496.614
14175	5.180	0.03757	497.135	418.820	0.03989	0.010	496.617
14176	5.180	0.03757	497.122	418.920	0.03945	0.010	496.616
14177	5.180	0.04187	497.178	418.600	0.03963	0.009	496.616
14178	5.180	0.04187	497.200	418.480	0.03956	0.009	496.621
14179	5.181	0.04641	497.265	418.110	0.03983	0.008	496.625
14180	5.181	0.04641	497.248	418.250	0.03958	0.008	496.624
14183	5.476	0.03350	497.044	462.850	0.04120	0.011	496.623
14184	5.476	0.03350	497.059	462.770	0.04084	0.011	496.630
14185	5.476	0.03757	497.115	462.400	0.04077	0.010	496.628
14187	5.477	0.04187	497.183	461.980	0.04122	0.009	496.633
14188	5.477	0.04187	497.184	462.050	0.04125	0.008	496.633
14189	5.477	0.04641	497.240	461.670	0.04143	0.008	496.634
14190	5.478	0.04641	497.246	461.670	0.04112	0.007	496.641
14191	5.797	0.02967	496.988	507.650	0.04247	0.013	496.626
14193	5.796	0.03350	497.042	507.220	0.04254	0.011	496.629
14194	5.796	0.03350	497.028	507.320	0.04261	0.011	496.628
14197	5.797	0.04187	497.154	506.470	0.04266	0.009	496.630
14198	5.797	0.04187	497.151	506.520	0.04253	0.009	496.630
14199	5.797	0.04641	497.214	506.090	0.04277	0.008	496.635
14201	6.129	0.02967	496.983	548.880	0.04432	0.014	496.625
14202	6.129	0.02967	496.945	549.160	0.04447	0.014	496.623
14203	6.129	0.03350	497.035	548.540	0.04391	0.011	496.628
14204	6.129	0.03350	497.011	548.730	0.04430	0.012	496.626
14205	6.129	0.03757	497.055	548.400	0.04401	0.010	496.625
14206	6.129	0.03757	497.079	548.220	0.04372	0.010	496.632
14207	6.129	0.04187	497.123	547.920	0.04424	0.009	496.630
14208	6.129	0.04187	497.129	547.880	0.04373	0.008	496.629
14209	6.129	0.04641	497.180	547.490	0.04369	0.007	496.630
14210	6.129	0.04641	497.178	547.510	0.04348	0.007	496.635
14211	6.538	0.03757	497.006	592.250	0.04568	0.010	496.618
14212	6.539	0.03757	497.009	592.260	0.04589	0.010	496.617
14213	6.538	0.04187	497.059	591.890	0.04557	0.009	496.617
14214	6.539	0.04187	497.073	591.820	0.04567	0.009	496.619
14215	6.538	0.04640	497.119	591.450	0.04502	0.008	496.616
14216	6.538	0.04641	497.122	591.460	0.04546	0.008	496.617
14217	6.539	0.05118	497.194	590.960	0.04541	0.007	496.619
14218	6.539	0.05118	497.205	590.890	0.04546	0.007	496.622
14219	6.538	0.05618	497.248	590.560	0.04540	0.006	496.616
14220	6.538	0.05618	497.252	590.540	0.04522	0.006	496.620
14221	6.996	0.03757	497.009	632.490	0.04702	0.010	496.612
14222	6.996	0.03757	497.016	632.480	0.04707	0.010	496.617
14223	6.996	0.04641	497.121	631.790	0.04659	0.008	496.617
14224	6.996	0.04641	497.113	631.860	0.04660	0.008	496.617
14225	6.996	0.05618	497.224	631.120	0.04663	0.006	496.616

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
14226	6.996	0.05618	497.232	631.080	0.04680	0.006	496.614
14227	6.997	0.06688	497.348	630.370	0.04673	0.005	496.614
14228	6.997	0.06688	497.344	630.410	0.04669	0.005	496.616
14229	6.997	0.07813	497.483	629.490	0.04695	0.005	496.618
14230	6.997	0.07813	497.480	629.530	0.04686	0.005	496.618
14231	7.604	0.03757	497.005	675.630	0.04779	0.010	496.621
14232	7.603	0.03757	496.989	675.710	0.04771	0.010	496.620
14233	7.603	0.04641	497.100	675.050	0.04835	0.007	496.621
14234	7.603	0.04641	497.092	675.050	0.04814	0.008	496.618
14235	7.603	0.05618	497.222	674.270	0.04817	0.006	496.623
14236	7.602	0.05618	497.222	674.270	0.04809	0.006	496.624
14237	7.602	0.06688	497.315	673.670	0.04814	0.005	496.620
14238	7.602	0.06688	497.331	673.610	0.04829	0.005	496.622
14239	7.601	0.07814	497.448	672.850	0.04836	0.005	496.621
14240	7.601	0.07814	497.433	672.920	0.04824	0.005	496.620
14242	8.362	0.04643	497.078	717.550	0.05020	0.008	496.592
14243	8.363	0.05620	497.167	717.120	0.04979	0.006	496.594
14244	8.365	0.05620	497.175	717.190	0.05000	0.006	496.597
14245	8.366	0.06691	497.284	716.660	0.04984	0.005	496.596
14247	8.369	0.07816	497.417	716.120	0.04965	0.005	496.598
14248	8.370	0.07816	497.426	716.140	0.04971	0.004	496.607
14249	8.371	0.09070	497.564	715.470	0.04994	0.004	496.605
14250	8.373	0.09070	497.569	715.510	0.04969	0.004	496.607
14251	9.303	0.05620	497.146	758.340	0.05169	0.006	496.593
14252	9.304	0.05620	497.157	758.350	0.05127	0.006	496.592
14253	9.305	0.06690	497.262	757.860	0.05181	0.005	496.595
14254	9.306	0.06690	497.276	757.850	0.05142	0.005	496.603
14255	9.307	0.07816	497.372	757.450	0.05143	0.005	496.599
14256	9.307	0.07817	497.388	757.370	0.05151	0.005	496.595
14257	9.309	0.09071	497.515	756.850	0.05129	0.004	496.599
14258	9.309	0.09070	497.528	756.800	0.05133	0.004	496.600
14259	9.309	0.10419	497.649	756.250	0.05155	0.003	496.600
14260	9.311	0.10419	497.662	756.230	0.05137	0.003	496.598
14261	10.584	0.05619	497.095	801.890	0.05367	0.007	496.584
14262	10.583	0.05620	497.127	801.740	0.05363	0.007	496.586
14263	10.582	0.06690	497.215	801.350	0.05313	0.005	496.588
14265	10.582	0.07817	497.335	800.880	0.05312	0.004	496.585
14266	10.582	0.07817	497.319	800.930	0.05366	0.005	496.586
14267	10.581	0.09069	497.451	800.360	0.05332	0.004	496.578
14268	10.580	0.09070	497.453	800.330	0.05321	0.004	496.581
14269	10.580	0.10419	497.582	799.780	0.05351	0.003	496.584
14270	10.579	0.10418	497.601	799.700	0.05324	0.003	496.586
14271	12.121	0.06690	497.197	841.780	0.05567	0.005	496.574
14273	12.119	0.07817	497.299	841.360	0.05508	0.004	496.569
14274	12.118	0.07817	497.293	841.360	0.05505	0.004	496.573
14275	12.116	0.09071	497.408	840.910	0.05524	0.004	496.573
14276	12.117	0.09070	497.424	840.870	0.05579	0.004	496.575
14277	12.117	0.10419	497.550	840.430	0.05454	0.004	496.572

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
14278	12.116	0.10419	497.555	840.370	0.05520	0.003	496.575
14279	12.116	0.11859	497.680	839.920	0.05529	0.003	496.573
14280	12.116	0.11859	497.693	839.880	0.05531	0.003	496.575
14281	14.225	0.06691	497.165	884.640	0.05771	0.006	496.572
14282	14.225	0.06691	497.165	884.640	0.05755	0.006	496.568
14283	14.225	0.07817	497.289	884.260	0.05758	0.005	496.575
14284	14.225	0.07817	497.279	884.290	0.05752	0.005	496.575
14285	14.222	0.09072	497.395	883.870	0.05720	0.004	496.571
14286	14.221	0.09071	497.387	883.870	0.05771	0.004	496.572
14287	14.221	0.10419	497.518	883.470	0.05750	0.003	496.576
14289	14.219	0.11859	497.654	882.990	0.05748	0.003	496.576
14290	14.217	0.11860	497.645	882.990	0.05761	0.003	496.574
14293	16.849	0.07817	497.230	925.790	0.06017	0.005	496.565
14294	16.849	0.07817	497.231	925.780	0.06000	0.005	496.560
14295	16.847	0.09736	497.396	925.300	0.06010	0.003	496.569
14296	16.847	0.09736	497.393	925.300	0.05956	0.004	496.569
14297	16.847	0.11859	497.596	924.740	0.05985	0.003	496.565
14298	16.847	0.11860	497.614	924.690	0.05993	0.003	496.572
14299	16.844	0.14197	497.819	924.080	0.06006	0.003	496.568
14300	16.846	0.14197	497.831	924.080	0.06005	0.003	496.569
14303	20.393	0.07818	497.213	969.190	0.06318	0.005	496.575
14304	20.394	0.07818	497.219	969.190	0.06291	0.005	496.569
14305	20.392	0.09736	497.382	968.770	0.06259	0.004	496.578
14307	20.391	0.11860	497.576	968.290	0.06271	0.003	496.578
14308	20.389	0.11860	497.559	968.310	0.06277	0.003	496.578
14309	20.388	0.14197	497.769	967.780	0.06272	0.003	496.579
14310	20.387	0.14196	497.771	967.770	0.06269	0.003	496.577
14311	24.607	0.07818	497.164	1009.690	0.06588	0.005	496.579
14312	24.607	0.07817	497.191	1009.630	0.06612	0.005	496.583
14313	24.606	0.09736	497.330	1009.320	0.06589	0.004	496.582
14314	24.604	0.09736	497.333	1009.300	0.06560	0.004	496.584
14315	24.606	0.11860	497.514	1008.920	0.06566	0.003	496.584
14316	24.607	0.11860	497.525	1008.910	0.06584	0.003	496.582
14317	24.604	0.14195	497.688	1008.530	0.06579	0.003	496.583
14318	24.604	0.14196	497.689	1008.530	0.06566	0.003	496.579
14319	24.603	0.16743	497.912	1008.040	0.06564	0.002	496.583
14320	24.602	0.16743	497.908	1008.030	0.06585	0.003	496.587
14322	30.274	0.09737	497.310	1052.250	0.06927	0.004	496.575
14323	30.275	0.11862	497.470	1051.940	0.06922	0.003	496.581
14324	30.271	0.11862	497.468	1051.920	0.06911	0.003	496.582
14325	30.275	0.14197	497.684	1051.530	0.06913	0.003	496.581
14326	30.273	0.14198	497.660	1051.570	0.06998	0.003	496.586
14327	30.274	0.16744	497.866	1051.170	0.06908	0.002	496.578
14328	30.272	0.16744	497.851	1051.190	0.06917	0.002	496.576
14329	30.270	0.19505	498.053	1050.790	0.06941	0.003	496.579
14330	30.271	0.19506	498.069	1050.760	0.06961	0.003	496.583
14331	37.266	0.09737	497.271	1094.160	0.07314	0.004	496.595
14332	37.263	0.09738	497.261	1094.160	0.07270	0.004	496.588

Run Point	P_e / MPa	q / $W \cdot m^{-1}$	T_e / K	ρ_e / $kg \cdot m^{-3}$	λ_e / $W \cdot m^{-1} \cdot K^{-1}$	STAT	T_i / K
14333	37.265	0.11862	497.422	1093.890	0.07291	0.003	496.587
14334	37.261	0.11862	497.424	1093.870	0.07284	0.003	496.587
14335	37.267	0.14199	497.609	1093.580	0.07284	0.003	496.584
14336	37.265	0.14200	497.624	1093.540	0.07293	0.003	496.589
14337	37.265	0.16748	497.822	1093.210	0.07306	0.002	496.590
14338	37.264	0.16746	497.799	1093.240	0.07273	0.002	496.586
14339	37.268	0.19508	498.013	1092.890	0.07295	0.002	496.581
14340	37.262	0.19508	498.013	1092.860	0.07300	0.002	496.586
14341	45.948	0.11862	497.380	1135.530	0.07703	0.003	496.599
14342	45.947	0.11862	497.385	1135.510	0.07693	0.003	496.602
14343	45.939	0.14198	497.564	1135.200	0.07694	0.003	496.605
14344	45.941	0.14198	497.561	1135.210	0.07700	0.003	496.605
14345	45.940	0.16747	497.756	1134.900	0.07696	0.003	496.603
14346	45.936	0.16747	497.752	1134.890	0.07661	0.002	496.606
14347	45.941	0.19507	497.944	1134.610	0.07664	0.002	496.602
14348	45.941	0.19508	497.949	1134.600	0.07653	0.002	496.612
14349	45.939	0.22477	498.157	1134.270	0.07701	0.002	496.609
14350	45.941	0.22475	498.160	1134.280	0.07693	0.002	496.606
14351	56.268	0.11864	497.413	1175.440	0.08097	0.003	496.625
14352	56.268	0.11865	497.418	1175.430	0.08111	0.003	496.623
14353	56.274	0.14203	497.577	1175.230	0.08078	0.003	496.622
14354	56.265	0.14203	497.564	1175.220	0.08098	0.003	496.619
14355	56.269	0.16750	497.743	1174.980	0.08091	0.002	496.624
14356	56.273	0.16750	497.742	1174.990	0.08112	0.002	496.621
14357	56.272	0.19512	497.951	1174.690	0.08103	0.002	496.628
14358	56.275	0.19512	497.926	1174.740	0.08094	0.002	496.621
14359	56.273	0.22480	498.122	1174.450	0.08152	0.002	496.621
14360	56.272	0.22480	498.131	1174.430	0.08151	0.002	496.625
14361	68.338	0.11867	497.373	1213.880	0.08536	0.004	496.625
14362	68.329	0.11867	497.361	1213.870	0.08513	0.003	496.622
14363	68.332	0.14204	497.506	1213.690	0.08570	0.003	496.621
14364	68.327	0.14205	497.507	1213.680	0.08586	0.003	496.619
14365	68.330	0.16752	497.671	1213.470	0.08562	0.002	496.620
14366	68.333	0.16753	497.666	1213.490	0.08549	0.002	496.621
14367	68.326	0.19514	497.845	1213.230	0.08539	0.002	496.625
14368	68.326	0.19514	497.841	1213.240	0.08561	0.003	496.615
14369	68.326	0.22485	498.035	1212.980	0.08594	0.002	496.620
14370	68.323	0.22482	498.034	1212.980	0.08604	0.002	496.624