

104.9 - Stable Isotopic Materials (solid and solution forms)

The isotopic composition of these SRMs has been determined by mass spectrometry.

For light stable isotopic materials value assigned on an artifact based scale,
[see Table 104.10](#)

SRMs marked with a "X" in the Column "NRC License or Equivalent Required" are subject to license requirement by the NRC (or Agreement State) for transfer within the United States (U.S.). License certification is required of purchaser by NIST prior to shipment.

When an import permit for radioactive material is required of a customer outside the U.S., NIST must have a copy to complete an order and facilitate shipment.

["Radionuclide Calibration Services"](#)

["Radioactive SRM Purchasing Instructions & License Certification Form"](#)

["Radioactive SRMs-General Info"](#)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Isotopic Measurand	NRC License or Equivalent Required
951a	Boric Acid Isotopic Standard	10 g	Boron	--
973	Boric Acid (Acidimetric Standard)	100 g	Boron	--
975a	Isotopic Standard for Chlorine	0.25 g	Chlorine	--
977	Isotopic Standard for Bromine	0.25 g	Bromine	--
978a	Assay-Isotopic Standard for Silver	0.25 g	Silver	--
979	Chromium Isotopic Standard	0.25 g	Chromium	--
980	Isotopic Standard for Magnesium	0.25 g	Magnesium	--
982	Equal-Atom Lead Isotopic Standard	1 g wire	Lead	X
983	Radiogenic Lead Isotopic Standard	1 g wire	Lead	X
984	Rubidium Chloride	0.25 g	Rubidium	--
986	Isotopic Standard for Nickel	0.5 g	Nickel	--
987	Strontium Carbonate Isotopic Standard	1 g	Strontium	--
994	Isotopic Standard for Gallium	0.25 g	Gallium	--
997	Thallium Isotopic Standard	0.25 g	Thallium	--
3230	Iodine-129 Isotopic Standard (Low Level)	5 x 5 mL	Iodine	
3231	Iodine-129 Isotopic Standard (High Level)	5 x 5 mL	Iodine	
3328	Lead (Pb) Isotopic Standard Solution	2 x 10 mL	Lead	--
8599	Henderson Molybdenite	10 g	Iodine	--

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- Certified values are normal font
 - Non-certified or reference values are italicized
 - Non-certified values in parentheses are for information only