



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

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Product Identifier

SRM Number: 3181

SRM Name: Sulfate Anion (SO_4^{2-}) Standard Solution

Under the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200, this Standard Reference Material (SRM) is NOT classified as a physical hazard or a health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified. There are no hazard pictograms, hazard statements or signal word associated with it. Safety Data Sheet information is not required. This document may be used in conjunction with your hazard communication program.

Description: This SRM is intended for use as a primary calibration standard for the quantitative determination of sulfate using anion ion chromatography (IC) or other methods. A unit of SRM 3181 consists of five 10 mL sealed borosilicate glass ampoules of solution prepared gravimetrically to contain trace amounts of potassium sulfate dissolved in filtered (0.22 μm) water having a minimum resistivity of 18 $\text{M}\Omega$ cm.

Disposal: SRM 3181 should be disposed of in accordance with local, state, and federal regulations.

Transport Information: This material is not regulated by the U.S. Department of Transportation (DOT) and/or International Air Transport Association (IATA).

Disclaimer: The NIST information in this document is specific to the NIST product and is believed to be correct, based upon our current knowledge. This document may not necessarily be all inclusive and should be used only as a guide. NIST does not guarantee the accuracy or completeness of this information. The only official source for specific values and uncertainties is the certificate or report.

Users of this SRM should ensure that this document and the corresponding Certificate of Analysis in their possession are current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; e-mail srmmsds@nist.gov; or via the Internet at <https://www.nist.gov/srm>.