



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

DATE: 01 February 2019

Product Identifier

SRM Number: 3180

SRM Name: Iodide Anion (I⁻) 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 a solution of potassium iodide dissolved in water at a nominal concentration of 0.1 % by mass. SRM 3180 is intended for use as a primary calibration standard for the quantitative determination of iodide. A unit of SRM 3180 consists of five 5 mL, sealed, amber, borosilicate glass ampoules of solution prepared gravimetrically to contain a known mass fraction of iodide. The matrix of the solution is water containing sodium sulfite at a concentration of approximately 0.01 mol/L and sodium hydroxide at a concentration of approximately 0.005 mol/L.

Disposal: SRM 3180 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: This document was prepared carefully, using current references. 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; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at <https://www.nist.gov/srm>.