



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material 3184

Anion Standard Solution

Bromide

Batch Code 292909

This Standard Reference Material (SRM) is intended for use in anion ion chromatography, or any other analytical technique that requires aqueous standard solutions for calibration or as control samples. SRM 3184 is a single component solution prepared gravimetrically to contain 1000 μg bromide per gram of solution. The certified value is based on gravimetric procedures, i.e., weight per weight composition of a high-purity potassium bromide salt dissolved in 0.06 microsiemens/cm (18 megohm) water. The density of the solution was measured to be 0.998 g/mL at 25 °C.

Constituent	Concentration ($\mu\text{g/g}$)	Source Purity, %
Bromide	1000 \pm 5	KBr (99.977)

The uncertainty associated with the certified value is approximated by summing the estimated errors due to the gravimetric preparation of the SRM, transpiration of the solution through the container wall within one year of bottling, and purity of the potassium bromide.

Stability and Storage: This certificate is valid for six months from the shipping date provided the solutions are kept tightly capped and stored under normal conditions in an area known to be free of acid fumes. NIST will monitor the stability of this SRM and will notify purchasers of any changes that invalidate this certification.

SRM 3184 was prepared and analyzed by T.A. Butler and G.C. Turk of the NIST Inorganic Analytical Research Division under the technical leadership of R.L. Watters, Jr.

Registration: Please return the enclosed registration card immediately upon receipt of this SRM in order that we may inform the actual users of this SRM of any changes in the certified value or appropriate use of SRM 3184.

The technical and support aspects involved in the preparation, certification, and issuance of this Standard Reference Material were coordinated through the Standard Reference Materials Program by J.S. Kane.

Gaithersburg, MD 20899
December 20, 1992
(Revision of certificate dated 1-28-91)

William P. Reed, Chief
Standard Reference Materials Program