

Certificate of analysis

Product No.: 42864

Chromate Ion Chromatography Standard

Concentration: $1,000 \pm 5 \mu\text{g/mL}$

Ion: CrO_4^{2-}

Lot No.: 31-374093S

Matrix: H_2O

This solution is intended for use as a calibration standard for ion chromatography (IC). The certified concentration is based upon gravimetric procedures, i.e., weight per volume composition of high purity raw material dissolved ASTM Type I water. The uncertainty associated with the certified concentration is approximated by summing the estimated errors due to the purity of the raw material, the gravimetric preparation of the solution, and transpiration of the solution through the container wall.

NIST Traceability: All balances and class A volumetrics are calibrated regularly in accordance with NIST recommended procedures. In order to verify the concentration, the final solution was checked by ion chromatography against NIST SRM 136e.

Shelf Life: Alfa Aesar guarantees the accuracy of this Specpure® solution for one year from the shipping date, provided it is kept tightly capped and stored under normal laboratory conditions. We recommend preparing fresh working solutions daily by diluting with the same matrix and using certified class A volumetrics.

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