

Boric acid in water

Art. ID	ERM-AE125
Unit	20 mL
Deliverydetails	No Dangerous Good /not restricted

Description

The isotopic reference material ERM-AE125 is a solution of boric acid in ultrapure water with a B mass fraction of 101 mg/kg. Approximately 20 mL of this solution each is filled in perfluoralkoxy alkane bottles.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified quantity	Delta11B (NIST SRM 951a)		(-124,00 ± 0,48)	per mille		
Isotope amount ratio, indicative value	n(10B)/n(11B)		0,28212 ± 0,00038	mol/mol		
Isotope amount ratio, indicative value	n(11B)/n(10B)		3,5446 ± 0,0048	mol/mol		
Isotope amount fraction, indicative value	n(10B)/n(B)		0,22004 ± 0,00023	mol/mol		
Isotope amount fraction, indicative value	n(11B)/n(B)		0,77996 ± 0,00023	mol/mol		
Molar mass of Boron in solution, indicative value	M(B)		10,79007 ± 0,00023	g/mol		
Mass fraction of Boron in solution, indicative value	w(B)		101,4 ± 2,0	mg/kg		