

Inorganic mercury isotopes - Natural abundance

Art. ID	NRC-NIMS-1
Unit	1,5 mL
Deliverydetails	No Dangerous Good /not restricted

Description

Certified values for isotope amount ratios, isotopic abundances and atomic weight of mercury have been established for this natural abundance inorganic mercury isotopic reference material (NIMS-1). The reference material was prepared by dilution of NIST SRM 3133 (Mercury Standard Solution) with high-purity water to yield a mass fraction of inorganic mercury of approximately 5 mg kg⁻¹. Certified values

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Isotope mass number, 196	Isotope amount ratio, n (A Hg)/n (198Hg)		0,0154(4)			
Isotope mass number, 198	Isotope amount ratio, n (A Hg)/n (198Hg)		1 (exact)			
Isotope mass number, 199	Isotope amount ratio, n (A Hg)/n (198Hg)		1,6873(11)			
Isotope mass number, 200	Isotope amount ratio, n (A Hg)/n (198Hg)		2,3050(24)			
Isotope mass number, 201	Isotope amount ratio, n (A Hg)/n (198Hg)		1,3120(24)			
Isotope mass number, 202	Isotope amount ratio, n (A Hg)/n (198Hg)		2,9629(39)			
Isotope mass number, 203	Isotope amount ratio, n (A Hg)/n (198Hg)		0,6792(12)			
Isotope mass number, 196	Isotopic abundance, N (A Hg)/n (Hg)		0,001 55(4)			
Isotope mass number, 198	Isotopic abundance, N (A Hg)/n (Hg)		0,100 38(10)			
Isotope mass number, 199	Isotopic abundance, N (A Hg)/n (Hg)		0,169 38(9)			
Isotope mass number, 200	Isotopic abundance, N (A Hg)/n (Hg)		0,231 38(6)			
Isotope mass number, 201	Isotopic abundance, N (A Hg)/n (Hg)		0,131 70(12)			
Isotope mass number, 202	Isotopic abundance, N (A Hg)/n (Hg)		0,297 43(9)			
Isotope mass number, 203	Isotopic abundance, N (A Hg)/n (Hg)		0,068 18(6)			

4	A Hg)/n (Hg)	
	Atomic weight, Ar(Hg)	200,5924(8)