

Inorganic mercury isotopes - Natural abundance

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|-----------------|-----------------------------------|
| 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) | | | |

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