

Mercury Isotopes in UM-Almaden Mono-Elemental Secondary Standard

Art. ID NIST-8610
 Unit 4 x 5 mL
 Deliverydetails ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ) UN1760 II E2

Description

This Reference Material (RM) is intended for use in developing and validating methods for measuring relative differences in mercury (Hg) isotope-number ratios, $R(\Delta^{199}\text{Hg}/\Delta^{198}\text{Hg})$. A unit of NIST-RM-8610 consists of four ampoules each containing approximately 5 mL of solution comprised of approximately 3% mass fraction nitric acid and 2% mass fraction hydrochloric acid, equivalent to amount-of-substance concentration (molarity) values of approximately 0.5 mol/L nitric acid and 0.5 mol/L hydrochloric acid. /// Sample value(s) - please ask for current certificate.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------|-------------------------|------------|---------------------|-----------|--------|--------|
| Reference Value | $\Delta^{199}\text{Hg}$ | | -0,17 ± 0,01 | per mille | | |
| Reference Value | $\Delta^{200}\text{Hg}$ | | -0,27 ± 0,01 | per mille | | |
| Reference Value | $\Delta^{201}\text{Hg}$ | | -0,46 ± 0,02 | per mille | | |
| Reference Value | $\Delta^{202}\text{Hg}$ | | -0,56 ± 0,03 | per mille | | |
| Reference Value | $\Delta^{204}\text{Hg}$ | | -0,82 ± 0,07 | per mille | | |