

Certificate of Analysis

Standard Reference Material 977

Isotopic Standard for Bromine

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|---|---------|-----------|
| Absolute Abundance Ratio, Br-79/Br-81 ----- | 1.02784 | ± 0.00105 |
| Bromine-79, atom percent _____ | 50.686 | ± 0.025 |
| Bromine-81, atom percent _____ | 49.314 | ± 0.025 |

The preparation furnished is a commercial sample of sodium bromide, formerly distributed as NBS Isotopic Reference Sample No. 106. Measurements are by triple filament mass spectrometry, using mixtures of known concentration prepared from high-purity separated isotopes as comparison standards. Overall limits of error are based on 95 percent confidence limits for the mean and on allowances for the effects of known sources of possible systematic error. Details of the preparations and measurements are published by E. J. Catanzaro, T. J. Murphy, E. L. Garner, and W. R. Shields, J. Research NBS 68A, (Phys. & Chem.) No. 6, 593-599 (1964)

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