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# Out of Stock - Item is not available at this time - Relative Intensity Correction Standard for Raman Spectroscopy - 532 nm Excitation

| | |
|---|---|
| Art. ID | NIST-2242 |
| Unit | on request |
| Deliverydetails | No Dangerous Good /not restricted |

## Description

This Standard Reference Material (SRM®) is a certified spectroscopic standard for the correction of the relative intensity of Raman spectra obtained with instruments employing 532 nm laser excitation. NIST-2242 consists of an optical glass that emits a broadband luminescence spectrum when excited with 532 nm laser radiation. The relative spectral intensity of the glass luminescence has been determined through the use of a white-light, uniform-source, integrating sphere that has been calibrated for its irradiance at NIST. The shape of the luminescence spectrum of this glass is described by a polynomial expression that relates the relative spectral intensity to the wavenumber (cm-1) expressed as the Raman shift from the excitation wavelength of 532 nm. This polynomial, together with a measurement of the luminescence spectrum of the standard, can be used to determine the spectral intensity-response correction that is unique to each Raman system. The resulting instrument-intensity-response correction may then be used to obtain Raman spectra that are instrument independent. /// Sample value(s) - please ask for current certificate.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|---|---|---|---|---|---|---|
| A0 | Polynomial Coefficient (20 °C - 25 °C) | | 0,037014 | | | |
| A1 | Polynomial Coefficient (20 °C - 25 °C) | | 0,000122531 | | | |
| A2 | Polynomial Coefficient (20 °C - 25 °C) | | (-4,21311E-08) | | | |
| A3 | Polynomial Coefficient (20 °C - 25 °C) | | 2,20E-10 | | | |
| A4 | Polynomial Coefficient (20 °C - 25 °C) | | (-9,04836E-14) | | | |
| A5 | Polynomial Coefficient (20 °C - 25 °C) | | 9,77E-18 | | | |