

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			