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Silicon Nanoparticles (Nominal Diameter 2 nm) in Toluene

Art. ID	NIST-8027
Unit	5 x 1mL
Deliverydetails	De Minimis UN1294 II E2

Description

This Reference Material (RM) is intended primarily to evaluate and qualify methodology and/or instrument performance related to the physical/dimensional characterization of nanoscale particles. The RM may also be useful in the development of in vitro assays designed to evaluate the biological response of nanomaterials and for use in interlaboratory test comparisons. A unit of NIST-RM 8027 consists of five hermetically sealed pre-scored glass ampoules containing nominally 1 mL of cyclohexane-stabilized silicon (Si) nanoparticles suspended in toluene. The suspension contains particles (monomers) and a small percentage of clusters of primary particles. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Particle size		2.20 ± 0.14	nm	DLS	
	Silicon (Si)	[7440-21-3]	6.43 ± 0.31	?g/g	ICP-OES	
TEM/Dry, deposited on s ubstrate	Particle Mean Size		1,9	nm		
AUC/ Liquid suspension	Particle Mean Size		1,7	nm		