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Colloidal silica in water - Particle size

Art. ID ERM-FD100 Unit ampoule

Deliverydetails No Dangerous Good /not restricted

Description

ERM-FD100 is a certified reference material and consists of collodial silica nanoparticles suspended in a water-based solution. It is available in 10 ml pre-scored amber glass ampoules containing approx. 9ml of suspension. The intended use is to check the performance of instruments and/or methods that characterise the particle size distribution of nanoparticles (particle size ranging from approx. 1 nm to approx. 100nm) suspension in a liquid medium.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Equivalent Spherical Di	Intensity-weighted harm		19,0 ± 0,6	nm	Dynamic li	
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Equivalent Spherical Di	Intensity- based modal		20,1 ± 1,3	nm	Centrifuge	
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					dmentation	
					according	
					to ISO 13	
					318-1:2001	
Equivalent Spherical Di	Number-based modal diar	n	19,4 ± 1,3	nm	Electron m	
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					(transmiss	
					ion electr	
					on microsc	
					opy/scanni	
					ng electro	
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Equivalent Spherical Di	Intensity-weighted mean		21,8 ± 0,7	nm	Small angl	
ameter	diameter				e X-ray sc	
					attering	