

Silica particles in aqueous solutions (22 g/kg, zeta potential for electroacoustic)

Art. ID	ERM-FD306
Unit	ampoule
Deliverydetails	No Dangerous Good /not restricted

Description

ERM-FD306 consists of a suspension of silica particles at a mass fraction of 22 g/kg in a borate buffer at pH 8.9. The material is available in 25 mL pre-scored ampoules containing approximately 25 mL of suspension /// identical to NIST SRM 1993

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
certified value	Mean electrophoretic mobility		- 4,5 ± 0,3	10-8m2V-1s	As obtained with electrophoretic light scattering (ELS) at a sample temperature of 25 °C and by applying ISO 13099-2:2012	
certified value	Mean zeta potential		- 56 ± 4	(mV) ²	As calculated from the certified electrophoretic mobility value using the Smolucowski approximation $f(\eta) = 1.5$ (for a temperature of 25 °C), a dynam	

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mPa.s and
a value of
78.4 for
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additional material inf ormation	Conductivity	0,42	mS/cm
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