

301.3 - Electrophoretic Mobility, E (suspension form)

SRM 1980 is intended for use in the calibration and evaluation of equipment used to measure electrophoretic mobility. It consists of a goethite suspension saturated with phosphate in a sodium perchlorate electrolyte solution.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size	Property Certified
1980	Positive Electrophoretic Mobility (μ_E) Standard	40 mL	$+\mu_E, 2.53 \mu\text{m} \cdot \text{cm}/\text{V} \cdot \text{s}$
1992	Zeta Potential - Colloidal Silica (Nominal Mass Fraction 0.15 %)	4 x 5 mL	Mean electrophoretic mobility, $-4.5 \times 10^{-8} \text{ m}^2 \text{ V}^{-1} \text{ s}^{-1}$ Mean zeta potential, -58 mV
1993	Zeta Potential - Colloidal Silica (Nominal Mass Fraction 2.2 %)	2 x 25 mL	Mean electrophoretic mobility, $-4.3 \times 10^{-8} \text{ m}^2 \text{ V}^{-1} \text{ s}^{-1}$ Mean zeta potential, -56 mV

-
- Certified values are normal font
 - Non-certified or reference values are italicized
 - Non-certified values in parentheses are for information only