201.1 - pH Calibration (powder form)

These SRMs are used to prepare solutions of known hydrogen ion activity to calibrate commercial pH instruments. SRMs 186g and 191d are each certified for use as an admixture only. SRM 186g (186-I-g and 186-II-g) may be used to prepare solutions with a pH of 6. 8640 at 25°C, or physiological buffer solutions with a pH of 7.4157 at 25°C.

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	pH(S) Values at 25 °C
185i	Potassium Hydrogen Phthalate, pH Standard	60 g	4.005
186g	pH Standards Potassium Dihydrogen Phosphate (186-I-g) Disodium Hydrogen Phosphate (186-II-g)	set	(see text above)
187f	Sodium Tetraborate Decahydrate (Borax) pH Standard	30 g	9.195
188	Potassium Hydrogen Tartrate (pH Standard)	60 g	3.557
189c	Potassium Tetroxalate Dihydrate pH Standard	65 g	1.677
191d	Sodium Bicarbonate (191d-I) Sodium Carbonate (191d-II) (ph Standard)	1 bottle x 25g; 1bottle x 30g	10.014
2193b	Calcium Carbonate pH Standard (used as saturated calcium hydroxide solution) (pH Standard)	30 g	12.453

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