104.3 - Stoichiometry (powder form)

These SRMs are defined as primary, working, and secondary standards in accordance with recommendations of the Analytical Chemistry Section of the International Union of Pure and Applied Chemistry [Ref. Analyst 90, 251 (1965)]. These definitions are as follows: Primary Standard:

a commercially available substance of purity 100 ± 0.02% (Purity 99.98 + %). Working Standard: a commercially available substance of purity 100 ± 0.05% (Purity 99. 95 + %). Secondary Standard: a substance of lower purity which can be standardized against a primary grade standard.

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 of Issue	Chloride Cl (mass fraction %)	Intended Use	Potassium Chloride KCl (mass fraction %)	Potassium K (mass fraction %)	Stoichiometeric Purity (mass fraction %)
<u>17g</u>	Sucrose Optical Rotation	60 g					99.941
<u>841</u>	Potassium Hydrogen Phthalate	60 g		Acidimetric Standard			99.9934
<u>136f</u>	Potassium Dichromate (Oxidimetric Standard)	60 g		Oxidimetric Standard			99.9954
<u>350c</u>	Benzoic Acid (Acidimetric Standard	30 g		Acidimetric Standard			99.959
<u>351a</u>	Sodium Carbonate (Acidimetric Standard	50 g		Acidimetric Standard			99.970
<u>723e</u>	Tris(hydroxymethyl)aminomethane (HOCH ₂) ₃ CNH ₂ Acidimetric Standard	50 g		Acidimetric Standard			99.9796
<u>917d</u>	D-Glucose (Dextrose)	50 g		Purity			99.6
<u>973</u>	Boric Acid (Acidimetric Standard)	100 g		Acidimetric Value			100.009
<u>999c</u>	Potassium Chloride Primary Standard	30 g	47.5519	Primary Standard	99.987	52.443	
<u>8040a</u>	Sodium Oxalate (Reductometric Standard)	60 g		Reductometric Standard			99.975

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only