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	17f	84l	136f	350c	351a	723e	917c	973	999c
Description	**Sucrose Optical Rotation**	**Potassium Hydrogen Phthalate**	**Potassium Dichromate (Oxidimetric Standard)**	**Benzoic Acid (Acidimetric Standard)**	**Sodium Carbonate (Acidimetric Standard)**	**Tris(hydroxymethyl)aminomethane $(HOCH_2)_3CNH_2$ Acidimetric Standard**	**D-Glucose (Dextrose)**	**Boric Acid Acidimetric Standard**	**Potassium Chloride Primary Standard**
Unit of Issue	**(60 g)**	**(60 g)**	**(60 g)**	**(30 g)**	**(50 g)**	**(50 g)**	**(50 g)**	**(100 g)**	**(30 g)**
Chloride Cl (mass fraction %)									47.5519
Intended Use	Optical Rotation	Acidimetric Standard	Oxidimetric Standard	Acidimetric Standard	Acidimetric Standard		Purity Optical Rotation	Acidimetric Value	
Potassium Chloride KCl (mass fraction %)									99.987
Potassium K (mass fraction %)						99.97			52.443
Stoichiometeric Purity (mass fraction %)	99.956	99.9934	99.9954	99.959	99.970		99.7	100.009	

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

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8040a **Sodium Oxalate (Reductometric Standard)** **(60 g)**
Reductometric Standard
99.975

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only