

Technical Data Sheet

Lithium Sulfate Monohydrate: LITHIUM SULFATE MONOHYDRATE
Formula: $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$
Formula weight: 127.96
CAS NO.: 10102-25-7
Physical-chemical Properties: Colorless crystal, losing crystal water at temperature 130°C (266 °F), soluble in water, almost insoluble in alcohol, neutral in aqueous solution, specific gravity 2.06g/cm ³ , melting point 860°C (1580°F).
Applications: Separation of calcium and magnesium. It is also used in making high strength glass and potentially for ion conducting glasses. It is even used in pharmaceutical industry as an antidepressant.
Quality standard:

Name		Lithium Sulfate Monohydrate	
Li ₂ SO ₄ ·H ₂ O Content (Min%)		99.0	99.9
Impurity Content (Max%)	Free acid (in H ₂ SO ₄)	0.01	0.01
	Free base (in Li ₂ CO ₃)	0.007	0.005
	Chloride (Cl)	0.005	0.002
	Phosphate (PO ₄)	0.001	/
	Sodium (Na)	0.05	0.01
	Potassium (K)	0.05	0.01
	Calcium (Ca)	0.03	0.01
	Magnesium (Mg)	0.005	0.001
	Iron (Fe)	0.005	0.001
	Heavy metals (in Pb)	0.001	0.001
Water insolubles		0.01	0.01
Packing: By three-in-one composite bag lined with plastic bag, 25kg/bag. By paper drum lined with plastic bag, 25kg/drum.			