

**QS-PDS-1021 Revision 05**

<b>Formula</b>	LiOH·H <sub>2</sub> O
<b>Appearance</b>	White crystals
<b>Application</b>	Ultra-pure product suitable for use in production of electronic materials and other industries.

**Product Specifications**
**Guaranteed**

LiOH, wt. %	56.5	min
CO <sub>2</sub> , wt. %	0.35	max
Cl, wt. %	0.0020	max
SO <sub>4</sub> , wt. %	0.010	max
Ca, wppm	15	max
Fe, wppm	5	max
Na, wppm	20	max
Al, wppm	10	max
Cr, wppm	5	max
Cu, wppm	5	max
K, wppm	10	max
Ni, wppm	10	max
Si, wppm	30	max
Zn, wppm	10	max
Heavy metals as Pb	10	max
Acid Insolubles, wt. %	0.010	max

**Other Data**

Bulk density	Loose	0.9
	g/cm <sup>3</sup> Tap	
	1.0 g/cm <sup>3</sup>	

**Physical Properties**

Molecular weight	41.96
Density @ 20°C	1.51 g/cm <sup>3</sup>
Standard heat of formation	-188.9 kcal/mole
Standard heat of fusion	-0.867 kcal/mole
Specific heat @ 25°C	0.453 cal/g/°C
Loses water of hydration	100 -110°C

**Water Solubility**

Temperature (°C)	Weight percent LiOH in saturated solution*
0	10.7
20	10.9
100	14.8

**LITHIUM HYDROXIDE MONOHYDRATE, HIGH-PURITY GRADE****CAS No. 1310-66-3**

**Toxicity/Safety Data Handling / Storage / Disposal** *Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.*

**Shipping Containers** 20kg bags, shipped 50 to a pallet  
100 kg polyethylene-lined fiber drums,  
shipped 4 to a pallet

**Shipping Limitations** Shipments of lithium hydroxide are described as "Lithium Hydroxide, UN 2680."  
All shipments are Hazard Class 8 and require "Corrosive" labels.

Post	Not acceptable
Parcel	Restricted quantities
Sea	Class 8 (IMDG)
Road	Class 8 (DOT/ADR)