



Lithium Hydroxide, Monohydrate High Purity Grade

CAS No. 1310-66-3

QS-PDS-1021 Revision: 06

Date of Last Revision: July 7, 2022

Formula: LiOH.H₂O

Appearance: White crystals

Application: Ultra-pure product suitable for use in production of electronic materials and other industries.

Product Specifications:	LiOH, wt. %	56.5	min
	CO ₂ , wt. %	0.35	max
	Cl, wt. %	0.0020	max
	SO ₄ , wt. %	0.010	max
	Al, wppm	10	Max
	Ca, wppm	15	max
	Cr, wppm	5	max
	Cu, wppm	5	max
	Fe, wppm	5	max
	K, wppm	10	max
	Na, wppm	20	max
	Ni, wppm	10	max
	Si, wppm	30	max
	Zn, wppm	10	max
	Heavy Metals as Pb, wppm	10	max
	Acid Insolubles, wt. %	0.010	max

Other Data:	Loose Bulk Density	0.9 g/cm ³
	Tapped Bulk Density	1.0 g/cm ³

Physical Properties:	Molecular Weight	41.96
	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
	Density @ 20°C	1.51 g/cm ³

Water Solubility:	% by wt. @ 0°C : 10.7
	% by wt. @ 20°C : 10.9
	% by wt. @ 100°C : 14.8



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

- Shipping Containers:**
- 100 Kg of product in a polyethylene-lined fiber drum. Four (4) fiber drums per pallet. 400 Kg per pallet.
 - 20 Kg of product in a polyethylene bag. Forty-four (50) bags per pallet. 1000 Kg per pallet.
 - 25 Kg of product in a polyethylene bag. Forty (40) bags per pallet. 1000 Kg per pallet.
 - 50 lbs of product in a polyethylene bag. Forty-four (40) bags per pallet. 2000 lbs per pallet.
 - 450 Kg of product in a supersack, stacked two (2) high, 900 Kg per pallet.
 - 1000 Kg of product in a supersack, single stacked. 1000 Kg per 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)