

Lithium Hydroxide, Monohydrate CAS No. 1310-66-3

QS-PDS-1022 Revision: 06 Date of Last Revision: June 12, 2024

Formula: LiOH.H₂O

Appearance: White crystals

Application: A free-flowing, granular solid used in the production of cathode

materials for lithium ion batteries. It is also well suited in the manufacturing of high-purity lithium greases, dyes, specialty resins

and many other chemical specialties.

Product Specifications: LiOH, wt. % 56.5 min

CO₂, wt. % 0.35 max
CI, wt. % 0.003 max
SO₄, wt. % 0.05 max
CaO, wt. % 0.03 max
NaOH, wt. % 0.05 max
Fe₂O₃, wt. % 0.003 max
Acid Insolubles, wt. % 0.005 max

Other Data: Loose Bulk Density 0.9 g/cm³

Tapped Bulk Density 1.0 g/cm³

Physical Properties: Molecular Weight 41.96

Standard Heat of Formation
Standard Heat of Fusion
Specific Heat @ 25°C
Loses Water of Hydration
Density @ 20°C

-188.9 kcal/mole
-0.867 kcal/mole
0.453 cal/g/°C
100 – 110°C
1.51 g/cm³

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 is **Handling / Storage / Disposal:** 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, Air Restricted quantities