

LiOH.H₂O

LITHIUM HYDROXIDE, Monohydrate

Chemical Formula LiOH.H₂O

CAS No. 1310-66-3

DESCRIPTION

Lithium Hydroxide, Monohydrate is a white-to-colorless, crystalline salt powder. The monohydrate is hygroscopic. It is readily soluble in water.

APPLICATIONS

Uses include a variety of applications including producing lithium complex greases, carbon dioxide absorber, as a fluxing agent in inorganic pigments, glass & ceramics and coolants for corrosion control. ASG carries a number of grades including technical grade, battery grade as well as offspec material.

PRODUCT SPECIFICATIONS

Parameters	Specifications
Appearance	White Crystals
LiOH, wt. %	56.5. Min
CO ₂ , wt. %	0.35. Max
Cl, wt. %	0.003 Max
SO ₄ , wt. %	0.05 Max
CaO, wt. %	0.03 Max
NaOH, wt. %	0.05 Max
Fe ₂ O ₃ , wt. %	0.003 Max
Acid Insolubles, wt. %	0.005 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 kca/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

ORDERS and
TECHNICAL SUPPORT

Lithium Salts of America
is Division of ASG Chemie

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WATER SOLUBILITY

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

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

PACKAGING

- 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.

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.

SHELF LIFE AND STORAGE

Product should be stored in a dry place away from direct sunlight and humidity in sealed, original packaging.

LIMITED WARRANTY INFORMATION.

PLEASE READ CAREFULLY.

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For more information or answers to questions about the use in specific applications, contact your Technical Sales Representative or call Toll Free 1.833.LITHUSA (1-833-548-4872).

Visit our website at www.lithiumsalts.com