

PRODUCT DATA SHEET - LITHIUM PRODUCTS

**LITHIUM HYDROXIDE
MONOHYDRATE**

Industrial Grade

CAS N° 1310-66-3

GENERAL DESCRIPTION	
CHEMICAL FORMULA	LiOH × H ₂ O
APPEARANCE	White Crystals
INTERNAL CODE	LHI

CHEMICAL SPECIFICATIONS			
GUARANTEED			
LITHIUM HYDROXIDE	LiOH	wt%	56.5 min
CHLORIDE	Cl	wt%	0.005 max
SULPHATE	SO ₄	wt%	0.03 max
CALCIUM OXIDE	CaO	wt%	0.03 max
POTASSIUM	K	wt%	0.01 max
SODIUM	Na	wt%	0.03 max
CARBON DIOXIDE	CO ₂	wt%	0.35 max
IRON OXIDE	Fe ₂ O ₃	wt%	0.0015 max
INSOLUBLES	in HCl	wt%	0.008 max

PHYSICAL PROPERTIES		
MOLECULAR WEIGHT		41.96
TYPICAL BULK DENSITY	g/cm ³	≈ 0.9
WATER SOLUBILITY	g /100 g H ₂ O	
	@ 10°C	22.3
	@ 80°C	26.8

STANDARD PACKAGING
- 25 kg or 50 lb polyethylene bag or multilayer paper bag with PE liner, 35 bags per pallet, stretch wrapped.
- 250 kg woven polypropylene maxibag with inner polyethylene bag
- 1000 lb woven polypropylene maxibag with inner polyethylene bag

REMARKS
Lithium hydroxide monohydrate LiOH×H ₂ O may tend to agglomerate if it is exposed at temperatures over 40°C for extended periods, because the bonded water molecules tend to be lost as free water, causing some dissolution and-re-crystallization of molecules of the product. This phenomena occurs in variable extent depending on transport/storage conditions and promotes lack of fully free-flowing condition.

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