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## Typical Product Specifications & Properties

# Lithium Hydroxide Monohydrate

CAS Number: : 1310-66-3

Specifications	Limits
Slightly Soluble	in alcohol
Moderately Soluble	in water
Assay	> 56.5%
Molecular weight	41.96 g/mol
Solubility	21.6 g/100g water at 20C
Solution enthalpy	3.6 kJ/mol in water
Fe <sub>2</sub> O <sub>3</sub>	< 0.001%
Water Insolubles	< 0.1%
Na + K	< 0.3%
CO <sub>2</sub>	< 0.35%
SO <sub>4</sub>	< 0.05%
Cl	< 0.05%



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Specifications	Limits
Solubility	29.6 g/100g water at 100C
Appearance	white, yellowing, fine crystalline powder
Density	1.51 g/ccm at 20C
Grain size	0.1-1.0 mm
Bulk Density	about 0.8 g/ccm
Melting Point	462C for LiOH
Solubility	22.0 g/100g water at 40C
Solubility	23.1 g/100g water at 60C
Solubility	25.6 g/100g water at 80C
pH	14 (1 aq. soln.)nonflamm.
Insolubility	in ether
Odor	odorless



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Specifications	Limits
Color	colorless crystal
Specific gravity	1.51
Chemical Structure	



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