



Application Lithium nitrate solution (30 wt%) corrosion inhibitor, especially in lithium bromide solutions

Appearance Clear water white to yellow

Product Specifications

Guaranteed

LiNO ₃ , wt%	29.5 – 30.5
Na, wppm	200 max
Si, wppm	50 max
Mg, wppm	20 max
Ca, wppm	100 max
Fe, wppm	20 max
Cl, wppm	30 max
SO ₄ , wppm	800 max
Water Insolubles, wppm	50 max
pH (5% Solution)	5 – 7
Alkalinity (as Li ₂ CO ₃), wt%	0.05 max
Molecular weight, LiNO ₃	68.95
Specific gravity @ 25°C	1.20 g/ml
Relative viscosity (Water =1.0), @ 25°C	1.95
Incipient crystallization temperature, °C	-8
Vapor pressure @ 25°C	17.16 mm Hg
Boiling point @ 760 mm Hg	109°C
Specific conductance (k), @ 25°C	0.169 ohm ⁻¹ cm ⁻¹

Physical Properties

Toxicity/Safety Data

Strong oxidizer if the solution is allowed to evaporate. Clear, odorless, water white to yellow solution. May be irritating to the eyes, skin and mucous membranes.

Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS) available for this product.

Air Treatment Construction Energy Fine Chemicals Glass & Ceramics Greases & Lubricants Polymers Pool Water Treatment

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Handling/Storage/Disposal Do not get in eyes, on skin or clothing. Avoid breathing vapors. Wash thoroughly after handling. Store away from readily oxidizable materials, strong acids and flammable materials. Keep container closed.

Dispose of waste according to local and Federal laws and regulations.

Shipping Containers 550 pounds (249.5 kg) of solution in a 55 gallon (208 L) high density polyethylene cube.

Shipping Limitations Shipments of lithium nitrate require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits and packaging requirements.

For shipments within Europe labeling for supply requirements are:

Xn Harmful
R&S phrases see Material Safety Data Sheet

Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in an approved vehicle in a responsible manner (i.e., no flat bed trucks).