Lithium Amide, milled

CAS-No. 7782-89-0
EC-No. 231-968-4
Molecular Formula LiNH₂
Product Number 401601

APPLICATION
Claisen condensation, Aldol condensation.
Alkylation of nitriles, ketones, amines, alkynes.
Synthesis of ethynyl compounds and antihistamines. Transesterification.
Catalyst for the anionic polymerization of acrylonitrile and methacrylonitrile.

FURTHER INGREDIENTS
Lithium hydride
CAS-No. 7580-67-8
EC-No. 231-484-3

SPECIFICATION
LiNH₂ min. 94 % typ. 97 %
LiH max. 6 % typ. 3 %

METHOD OF ANALYSIS
Determination by acidimetric titration. Detailed description on request.

PHYSICAL PROPERTIES
Appearance fine powder
Color white to gray
Melting point/ range 380 - 400 °C
Density 1.18 g/cm³ at 20 °C

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.
Bulk density 600 kg/m³
Water solubility (Not applicable)
   (Contact with water liberates toxic gas.)
Solubility in other solvents (practically insoluble)
Molecular weight 22.96 g/mol
Additional Physical Properties Particle size: typ. 90% < 0.4 mm

HANDLING & STORAGE

Handling Lithium Amide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation.
   Lithium Amide decomposes in contact with humidity.
   Pay also attention to the Safety Data Sheet.

Storage Lithium Amide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. Under exclusion of air and humidity, the material is fairly stable. We recommend a retest after a period of six months after receipt. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 1390

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Hazard pictograms

Signal Word: Danger

H&P Phrases: See Safety Data Sheet

Labelling: The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

Inner packing: Standard packing is 10 kg Polyethylene (PE) bags. PE bags from 10 g to 2,000 g in cans are available on request.

Outer packing: Appropriate clamping ring steel drums

OTHER INFORMATION

Further Related Documents: Safety Data Sheet

Our brochure(s): Lithium & Magnesium Amides