

TECHNICAL DATA SHEET

Date of Issue: 2025/11/28

Lithium Amide, milled

CAS-No.	7782-89-0
EC-No.	231-968-4
REACH No.	01-2120757139-47-0000
Molecular formula	LiNH ₂
Product number	10000101, 10001436, 10001437, 10001438, 10001439

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.

SPECIFICATION

LiNH ₂	min. 94 %
LiH	on request

METHOD OF ANALYSIS

Determination by acidimetric titration. Detailed description on request.

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.com.

Please contact us at www.albemarle.com/contact with questions.



PHYSICAL PROPERTIES

Appearance	solid
Colour	white to grey
Melting point/ range	380 °C at 1,013 hPa (Information taken from reference works and the literature.)
Boiling point/boiling range	(Decomposes below the boiling point.)
Density	1.17 g/cm ³ at 20 °C
Bulk density	ca. 600 kg/m ³
Water solubility	(Not applicable)
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. Dust may form explosive mixture in Air. Lithium Amide decomposes in contact with humidity. Pay also attention to the Safety Data Sheet - Section 7.
Storage	Lithium Amide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. Keep away from heat, sparks and fire. When stored according to SDS and under exclusion of air and humidity, the material is fairly stable. We still recommend to retest the material 6 months after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. Pay also attention to the Safety Data Sheet.

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TRANSPORT & PACKAGING

UN number 1390

ADR	Class: 4.3	PG: II	Label: 4.3
RID	Class: 4.3	PG: II	Label: 4.3
IMDG	Class: 4.3	PG: II	Label: 4.3
IATA_C	Class: 4.3	PG: II	Packing instruction (cargo aircraft): 489
IATA_P	Class: 4.3	PG: II	Packing instruction (passenger aircraft): 483

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

Standard packing is 50 kg Polyethylene (PE) bag in 110L steel drums. PE bags from 1 to 100 kg and Secubags from 1 to 5 kg in secondary PE bags are available on request.

OTHER INFORMATION

Further Related Documents

Safety Data Sheet

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