Lithium Aluminum Hydride, tablets (typ. 0.6 g)

CAS-No.	16853-85-3
EC-No.	240-877-9
REACH No.	01-2119919039-36
Molecular Formula	LiAlH₄
Product Number	401616
APPLICATION	Versatile reducing agent for organic chemical and phamaceutical industry.

SPECIFICATION

Lithium Aluminium Hydride. min. 97 %

METHOD OF ANALYSIS

Volumetric determination after hydrolysis by aqueous dioxane. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	powder (401614; 401617)
	tablet (401616)
Color	white to light gray
Decomposition temperature	> 125 °C
Density	0.9 g/cm3
Bulk density	ca. 400 kg/m3
Water solubility	(Not applicable)

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 norinoment. 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/contact with questions.



Solubility in other solvents	ca. 278 g/L at 25 °C Medium: Diethyl ether
	ca. 134 g/L at 25 °C Medium: Tetrahydrofuran
	ca. 15 g/L at 25 °C Medium: dibutyl ether
	ca. 1 g/L at 25 °C Medium: Dioxane
Molecular weight	37.95 g/mol
Thermal Stability	Appreciable decomposition with evolution of hydrogen at 125 °C and above
Additional Physical Properties	Theoretical hydrogen content: 10.62 % equivalent to 2.36 litres (stp) of hydrogen per g evolved in hydrolysis

HANDLING & STORAGE

Handling	Pay also attention to the official safety regulations (see: "Marking"). The safety data sheet is available on request. Please see also our brochure "Lithium Aluminum Hydride". In use may form flammable/explosive dust-air mixtures. Harmful in contact with skin and if swallowed. Keep container in a well-ventilated place. Keep under argon or nitrogen. Never add water to this product. Take precautionary measures against static discharges. In case of fire use powder based on sodium chloride or limestone powder. Never use water, halons or carbon dioxide.
Storage	Under exclusion of air and humidity, the material has fair stability, however within a certain period of time a slight grey discolouration (aluminum precipitation) with generation of hydrogen will be observed at ambient temperature. We recommend to use lithium aluminum hydride within a period of six months after receipt.

TRANSPORT & PACKAGING

UN number 1410

ADR	Class: 4.3	PG: I	Label: 4.3
RID	Class: 4.3	PG: I	Label: 4.3
IMDG	Class: 4.3	PG: I	Label: 4.3
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 487
IATA_P	Class: 4.3	PG: I	

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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: Solvent soluble SecuBags® from 10 g to 2,000 g in cans and 5 kg SecuBags®.

Outer Packing: Appropriate clamping ring steel drums.

OTHER INFORMATION

Further Related	Safety Data Sheet
Documents	-
Our brochure(s)	Lithium Aluminum Hydride

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