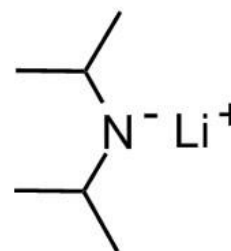


TECHNICAL DATA SHEET

Date of Issue: 2025/11/28

Lithium Diisopropylamide, typ. 20% in 4-Methyltetrahydropyrane/ Heptane/ Ethylbenzene



CAS-No.	4111-54-0
EC-No.	223-893-0
REACH No.	01-2119917565-33-0001
Molecular formula	LiC ₆ H ₁₄ N
Product number	11003073, 10007000, 10006983

FURTHER INGREDIENTS

tetrahydro-4-methyl-2H-pyran

CAS-No.	4717-96-8
EC-No.	225-207-5

ethylbenzene

CAS-No.	100-41-4
EC-No.	202-849-4

heptane

CAS-No.	142-82-5
EC-No.	205-563-8

diisopropylamine

CAS-No.	108-18-9
EC-No.	203-558-5

PURITY typ. 20% in organic solvent mixtures

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SPECIFICATION

LDA (active base)	19-21%	typ. 1.5M
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METHOD OF ANALYSIS

Thermometric titration with 2-butanol for the determination of active base. Potentiometric titration of the decomposed product for the determination of total base. Detailed description available on request.

PHYSICAL PROPERTIES

Colour	orange
Flash point	6.5 °C 1,013 hPa (4-Methyltetrahydropyran)
Boiling point/boiling range	108 °C Method: OECD Test Guideline 103 (4-Methyltetrahydropyran)
Water solubility	(Not applicable)
Molecular weight	107.13 g/mol

HANDLING & STORAGE

Handling	Lithium Diisopropylamide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Flashback possible over considerable distance. Use only explosion-proof equipment. Take measures against electrostatic discharges. Protect from frost, heat and sunlight. Lithium Diisopropylamide decomposes in contact with humidity. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO ₂ -extinguishers. Pay also attention to the Safety Data Sheet.
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Storage

Lithium Diisopropylamide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures. The product tends to crystallize at temperatures below 0 °C. Recommended storage temperature: 0 - 15 °C. When stored according to MSDS the material is fairly stable. We still recommend to retest the material 12 months after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. Keep away from heat, sparks and fire. Pay also attention to the Material Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 2924

ADR	Class: 3	PG: II	Label: 3 (8)
RID	Class: 3	PG: II	Label: 3 (8)
IMDG	Class: 3	PG: II	Label: 3 (8)
IATA_C	Class: 3	PG: II	Packing instruction (cargo aircraft): 363
IATA_P	Class: 3	PG: II	Packing instruction (passenger aircraft): 352

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.

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Packaging

Glass bottles of 500 and 1,000 ml. Steel bottles with volumes of 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums up to 200 l net.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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