## TECHNICAL DATA SHEET

Date of Issue: 2016/12/13

# Lithium Diisopropylamide, typ. 25 % solution in Heptane / THF / Ethylbenzene (typ. 1.9 M)

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CAS-No.

4111-54-0

EC-No.

223-893-0

REACH No.

01-2119917565-33

Molecular Formula

C<sub>6</sub>H<sub>1</sub>4LiN

**Product Number** 

408413

**APPLICATION** 

Strong, low-nucleophilic base for e.g. enolisations.

## **FURTHER INGREDIENTS**

Heptane

CAS-No. 64742-49-0 EC-No. 927-510-4 Tetrahydrofuran

CAS-No.

109-99-9 EC-No. 203-726-8

Ethylbenzene

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

Diisopropylamine

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

## **SPECIFICATION**

LDA (active base)	24 – 26 % (1.9 M)	
THF	17 – 27 %	
technical Heptane	31 – 39 %	
Ethylbenzene	11 – 15 %	

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Diisopropylamine max. 4 %

#### METHOD OF ANALYSIS

Direct titration with benzoic acid against 4-phenyl-azo-diphenyl-amine for the determination of active base (modified Watson-Eastham). Detailed description available on request.

## PHYSICAL PROPERTIES

Appearance liquid

Color slightly yellow to red brown

Crystallization < 0 °C

temperature

Decomposition

temperature

> 40 °C

Flash point -21.2 °C (Tetrahydrofuran)

Boiling point/boiling

range

66 °C (Tetrahydrofuran)

Density ca. 0.80 g/cm3 at 20 °C

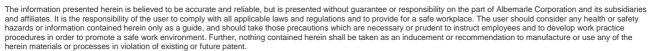
Water solubility (Not applicable)

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. Lithium Diisopropylamide decomposes in contact with humidity. 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. On prolonged storage at higher temperatures product is decomposing. Average decomposition rate:

at 23 °C < 0.1 wt.% (of 25 %) per day

at 40 °C < 0.3 wt.% (of 25 %) per day

Recommended storage temperature: 0 - 15 °C.

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.

## Packaging

Glass bottles of 100, 250, 500 and 1,000 ml. Steel bottles with volumes of 7.4, 27, 127 or 450 l. For safety reasons these are filled to a maximum of 90 %. Steel drums up to 200 l net.

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Ethylbenzene (typ. 1.9 M)
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## OTHER INFORMATION

Further Related

Safety Data Sheet

Documents

Our brochure(s) Lithium & Magnesium Amides, Trifolder - Specialties for Deprotonation

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