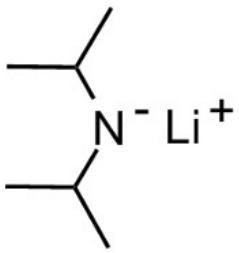
TECHNICAL DATA SHEET

Date of Issue: 2016/12/13

Lithium Diisopropylamide, typ. 28 % solution in Heptane / THF / Ethylbenzene (typ. 2.1 M)



CAS-No.	4111-54-0
EC-No.	223-893-0
REACH No.	01-2119917565-33
Molecular Formula	$C_6H_{14}LiN$
Product Number	408414

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)	27 – 29 % (2.1 M)
THF	21 – 31 %
technical Heptane	26 – 34 %
Ethylbenzene	13 – 17 %

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 temperature	< 0 °C
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.

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 28 %) per day

at 40 °C < 0.3 wt.% (of 28 %) 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.

OTHER INFORMATION

Further Related Documents	Safety Data Sheet
Our brochure(s)	Lithium & Magnesium Amides, Trifolder - Specialties for Deprotonation