

TECHNICAL DATA SHEET

Date of Issue: 2025/02/25

Trimethylsilyl-methylithium, typ 10 % solution in Hexanes (typ. 0.7 M)

CAS-No.	1822-00-0
REACH No.	01-2120929627-44-0000
Molecular formula	$(\text{CH}_3)_3\text{SiCH}_2\text{Li}$
Product number	10001063, 10006752, 10007201

APPLICATION

Reagent for deprotonation with a very low nucleophilicity. Ideally suited for the deprotonation of e.g. pyridins to avoid Tschitschibabin side-reactions. Non pyrophoric Li-organometal reagent.

SPECIFICATION

Total base: 8,0 - 12,0 %
Active base: 7,7 - 12,0 %

METHOD OF ANALYSIS

Determination of total base by potentiometric titration. Determination of active base by thermometric titration. Detailed description available on request.

PHYSICAL PROPERTIES

Appearance	liquid
Color	clear to yellow

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Crystallization temperature	< 10 °C
Flash point	-35 °C 1,013 hPa (Hexane)
Boiling point/boiling range	65 - 70 °C at 1,013 hPa Method: ISO 3405 (Hexane)
Density	ca. 0.67 g/cm ³ at 20 °C
Water solubility	(Not applicable)
Molecular weight	94.16 g/mol

HANDLING & STORAGE

Handling	Methylithium should only 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. Flash-back possible over considerable distance. Use only explosion-proof equipment. Take measures against electrostatic discharges. Protect from frost, heat and sunlight. Never add water, acids or oxidizing materials to the product. In case of fire use dry extinguishers on basis of sodium chloride or limestone powder. Never use water or CO ₂ -extinguishers. Pay attention to the safety data sheet.
Storage	When stored according to SDS 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. Keep at temperatures above 15°C. Keep container tightly closed. Keep away from sources of ignition. Material tends to crystallize at temperatures < 10°C.

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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 1.000 mL. Steel containers with nominal volume of 127 L. For safety reasons these are filled to a maximum of 90%. Steel drums with nominal volumes of 200 L.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

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