

## TECHNICAL DATA SHEET

Date of Issue: 2025/07/22

# Ethynylmagnesium Chloride, typ. 5 % solution in THF / Toluene (typ. 0.6 M)



CAS-No.	65032-27-1
EC-No.	627-099-9
Molecular formula	C <sub>2</sub> HCLMG
Product number	10001664, 10001665, 10001666, 10002062, 10008287

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**APPLICATION** Grignard-reactions: reagent for the introduction of the ethynyl group.

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### SPECIFICATION

Ethynylmagnesium chloride: 4.0 - 6.0 %

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### METHOD OF ANALYSIS

Acidimetric titration of the hydrolyzed product for the determination of assay as total base. Detailed description available on request.

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### PHYSICAL PROPERTIES

Appearance	liquid
Colour	yellow to dark brown

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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 environment. 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.

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Crystallization temperature	< 15 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	ca. 0.96 g/cm <sup>3</sup> at 20 °C
Water solubility	(Not applicable)
Molecular weight	84.79 g/mol
Thermal Stability	crystallisation below around 15 °C

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## HANDLING & STORAGE

Handling	The material should only be handled under inert gas atmosphere. 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. Protect from frost, heat and sunlight. Never add water or oxidizing agents. Do not store together with Acids, Alcohols, Light metals, Copper, Copper alloys, Magnesium. In case of fire use dry extinguishers based on sodium chloride or limestone powder, never use water or CO <sub>2</sub> . Pay attention to the Safety Data Sheet - Section 7.
Storage	When stored according to SDS the material is fairly stable. We still recommend to retest the material 6 month after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation. As material tends to crystallize at lower temperatures, it should be stored above 15 °C.

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## TRANSPORT & PACKAGING

UN number 3399

ADR	Class: 4.3	PG: I	Label: 4.3 (3)
RID	Class: 4.3	PG: I	Label: 4.3 (3)
IMDG	Class: 4.3	PG: I	Label: 4.3 (3)
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 494
IATA_P	Class: 4.3	PG: I	

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

Steel bottles with volumes of 27, 127 or 450 L. For safety reasons these are filled to a maximum of 90%. Steel drum 30 L.

## OTHER INFORMATION

Further Related Documents                      Safety Data Sheet  
Our brochure(s)                                      Organomagnesium Compounds

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