

## TECHNICAL DATA SHEET

Date of Issue: 2025/02/24

# Phenylmagnesium Chloride, typ. 25 % solution in THF (typ. 1.9 M)

CAS-No.	100-59-4
EC-No.	202-868-8
REACH No.	01-2120065575-50-0000
Molecular formula	C <sub>6</sub> H <sub>5</sub> ClMg
Product number	10001012, 10001719, 10001720, 10001721, 10001722, 10001723

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

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### SPECIFICATION

Phenylmagnesium Chloride: 24.0– 26.0 %

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### METHOD OF ANALYSIS

determination of assay as total base by acidimetric titration after hydrolysis; detailed description available on request.

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### PHYSICAL PROPERTIES

Appearance	liquid
Color	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.

Technical data sheets may change frequently. You can download the latest version from our website [www.albemarle.com](http://www.albemarle.com).

Please contact us at [www.albemarle.com/contact](http://www.albemarle.com/contact) with questions.



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Crystallization temperature	<= 0 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	1.04 g/cm <sup>3</sup> at 20 °C
Water solubility	(Not applicable)
Molecular weight	136.86 g/mol
Thermal Stability	crystallisation below around 0 °C

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## HANDLING & STORAGE

Handling	Phenylmagnesium Chloride 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 <sub>2</sub> -extinguishers. Pay attention to the safety data sheet.
Storage	Phenylmagnesium Chloride should be stored in tightly closed containers under exclusion of air and humidity. As material tends to crystallize at lower temperatures, it should be stored above 15 °C. 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.

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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 bottle 500 mL. Steel bottles with volumes of 27, 127 and 450 L. For safety reasons these are filled to a maximum of 90 %.

## OTHER INFORMATION

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

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