TECHNICAL DATA SHEET

Date of Issue: 2017/09/06

Phenylmagnesium Bromide, typ. 45 % solution in Diethyl Ether (typ. 2.8 M)

CAS-No. 100-58-3

EC-No. 202-867-2

Molecular Formula C₆H₅MgBr

Product Number 408465

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

FURTHER INGREDIENTS

Diethyl ether

CAS-No. 60-29-7 EC-No. 200-467-2

Benzene

CAS-No. 71-43-2 EC-No. 200-753-7

SPECIFICATION

Phenylmagnesium Bromide: 44.0 – 46.0 %

METHOD OF ANALYSIS

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

PHYSICAL PROPERTIES

Appearance liquid

Color yellowish to dark brown

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.



MgBr

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Crystallization temperature

<= -5 °C

Flash point

-45 °C (Diethyl ether)

Boiling point/boiling

range

ca. 34.7 °C at 1,013 hPa (Diethyl ether)

Density

ca. 1.13 g/cm3 at 20 °C

Water solubility

(Not applicable)

Molecular weight

181.31 g/mol

Thermal Stability

crystallisation below around -5 °C

HANDLING & STORAGE

Handling Phenylmagnesium Bromide should only be handled under inert gas atmosphere.

Avoid contact with eyes, skin and clothes as well as inhalation. Never add water, acids or oxidizing materials. In case of fire use dry extinguishers based on sodium chloride or limestone powder, never use water or CO2. Pay attention to the Safety

Data Sheet.

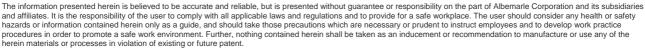
Storage Phenylmagnesium Bromide should be stored in tightly closed containers under

exclusion of air and humidity. Under these conditions, stable over practically unlimited periods. Recommended retest date: six months after date of delivery.

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





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Hazard pictograms



Signal Word Danger

H&P Phrases See Safety Data Sheet

The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary Labelling

in other countries. Please refer to the respective Safety Data Sheet for your country.

Organomagnesium Compounds, Trifolder - CC-Coupling Reactions in Organic

Packaging

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

OTHER INFORMATION

Further Related

Our brochure(s)

Documents

Safety Data Sheet

Synthesis

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