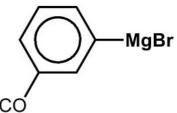
TECHNICAL DATA SHEET Date of Issue: 2017/09/06

3-Methoxyphenylmagnesium Bromide, typ. 20 % solution in THF / Toluene (typ. 0.9 M)



| CAS-No. | 36282-40-3 | H ₃ CO |
|-------------------|---|---------------------------------|
| EC-No. | not registered | |
| Molecular Formula | C ₇ H ₇ BrMgO | |
| Product Number | 408458 | |
| | | |
| APPLICATION | Grignard-reactions: reagent for the introductio | n of the 3-Methoxyphenyl group. |

FURTHER INGREDIENTS

| Toluene | | |
|-----------------|-----------|--|
| CAS-No. | 108-88-3 | |
| EC-No. | 203-625-9 | |
| Tetrahydrofuran | | |
| CAS-No. | 109-99-9 | |
| EC-No. | 203-726-8 | |

SPECIFICATION

3-Methoxyphenylmagnesium Bromide: 19 - 21 %

METHOD OF ANALYSIS

Acidimetric titration of the hydrolized 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 norinoment. 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-lithium.com/contact with questions.



| Crystallization temperature | < -5 °C |
|--------------------------------|--|
| Flash point | -21.2 °C (Tetrahydrofuran) |
| Boiling point/boiling range | 66 °C (Tetrahydrofuran) |
| Density | ca. 1 g/cm3 at 20 °C |
| Water solubility | (Not applicable) (Vigouros reaction with water forming methoxybenzene and MgOHBr.) |
| Molecular weight | 211.34 g/mol |
| Thermal Stability | Crystallization below around -5 °C |

HANDLING & STORAGE

Handling 3-Methoxyphenylmagnesium 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 3-Methoxyphenylmagnesium Bromide 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 10 °C. Under these conditions, stable over practically unlimited periods. Recommended restest 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 |
| 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.

OTHER INFORMATION

 Further Related
 Safety Data Sheet

 Documents
 Organomagnesium Compounds, Trifolder - CC-Coupling Reactions in Organic Synthesis

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