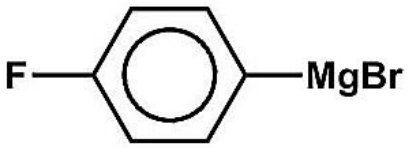
TECHNICAL DATA SHEET

Date of Issue: 2024/12/17

4-Fluorophenylmagnesium Bromide, typ. 16.5 % solution in THF (typ. 0.8 M)



CAS-No.	352-13-6
REACH No.	01-2120119135-67-0000
Molecular formula	C6H4BrFMg
Product number	10001687, 10001688, 10001689, 10001690, 10001691, 10001692, 10001693

APPLICATION

Grignard-reactions: reagent for the introduction of the 4-Fluorophenyl group.

SPECIFICATION

4-Fluorophenylmagnesium Bromide: 15.5 - 17.5 %

METHOD OF ANALYSIS

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

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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PHYSICAL PROPERTIES

Appearance	liquid
Color	yellow to dark brown
Crystallization temperature	ca. 5 °C
Flash point	-21.2 °C 1,013 hPa (Tetrahydrofuran)
Boiling point/boiling range	65 °C at 1,013 hPa (Tetrahydrofuran)
Density	ca. 1.01 g/cm3 at 20 °C
Water solubility	(Not applicable)
Molecular weight	199.31 g/mol
Thermal Stability	Crystallization below around +5 °C

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, 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 - 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 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 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 30 and 200 L.

OTHER INFORMATION

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

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