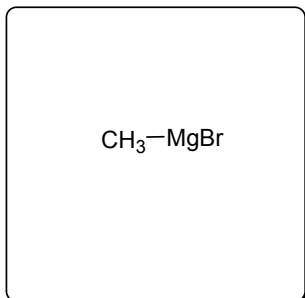


METHYL MAGNESIUM BROMIDE (in Tetrahydrofuran)

PRODUCT INFORMATION

DESCRIPTION

Arkema Inc. Methyl Magnesium Bromide [CAS# 75-16-1] is a translucent liquid with the following properties:



TYPICAL PROPERTIES

Formula	CH ₃ MgBr
Molecular Weight	119.26
EINECS No.	2008441
Solubility	Reactive in water.
Titer * (moles/kg solution)	2
Weight Percent Active	24.3
Specific Gravity at 25°C	1.07
Flash Point (tag closed cup)	-14.5°C (6°F)
Auto-ignition temperature	321°C (610°F)
Form	Liquid
Color**	Variable

*Determined by titration (see Reference #1)

**Although this product may vary from light to dark, the color has no effect on its reactivity

Arkema Inc. Grignard reagents, such as Methyl Magnesium Bromide, are used as building blocks for synthesis in various applications.

RECOMMENDED USES

Methyl Magnesium Bromide can be used in Nucleophilic Substitution.

Methyl Magnesium Bromide can be used as a strong base.

STORAGE

Methyl Magnesium Bromide in THF is manufactured and packaged under a blanket of dry nitrogen. Under such conditions, it is stable indefinitely. At low temperatures (0°C, 32°F), this compound may crystallize out of solution as a THF complex. When held at normal room temperature (20 to 25°C, 65 to 75°F), this complex slowly goes back into solution.

Grignard reagents in THF are extremely flammable. Proper precautions should be exercised in handling all flammable materials. For details on handling and storage, please consult the MSDS.

PACKAGING

Methyl Magnesium Bromide is available in 5 gallon pails and 55 gallon drums both sealed under a blanket of dry nitrogen to retain full reactivity during storage.

In addition, we can develop a returnable cylinder program to suit your needs.

Arkema Inc.

2000 Market Street
Philadelphia, PA 19103-3222
(800) 331-7654
Fax: (215) 419 7064

Arkema

Additives Division
4-8 Cours Michelet – La Defense 10
F-92091 Paris la Defense Cex
Phone: (33) 01 49 00 80 80
Fax: (33) 01 49 00 88 40

Arkema Pte Ltd

10 Science Park Road #01-01A
The Alpha Singapore Science Park II
Singapore 117684
Phone: +65 6419 9199
Fax: +65 6419 9188

Email: info.additives@arkema.com

ARKEMA GRIGNARD REAGENTS

Butyl Magnesium Chloride
Ethyl Magnesium Bromide
Methyl Magnesium Bromide
Methyl Magnesium Chloride
Phenyl Magnesium Chloride



REFERENCES

For an excellent review of Grignard chemistry, the following publications are recommended:

1. "Handbook of Grignard Reagents," Silverman, G.S. and Rakita, P.E., Eds., Marcel Dekker, Inc., New York (1996).
2. Nesmeyanov, A.N. and Kocheshkov, K.A., Methods of Elemento-Organic Chemistry. Vol. 2, Ioff, S.T. and Nesmeyanov, AX, The Organic Compounds of Magnesium, Beryllium, Calcium, Strontium, and Barium, The World Publishing Co., Cleveland (1967).
3. Kharasch, M.S. and Reinmuth, O., Grignard Reactions of Non-Metallic Substances, Prentice Hall Inc., N.Y. (1954).
4. Richies Book. (to be added in)

CUSTOM SYNTHESIS AND OUTSOURCING

We also provide custom synthesis and outsourcing options for Grignard-derived materials. Arkema's capabilities include producing and coupling Grignard reagents on a full commercial scale with solvent and hazardous waste recovery.

Our experts in Grignard technology welcome the opportunity to discuss your custom synthesis needs.

NOTE: Please consult MSDS for updated and detailed safety and health information.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations
© August 2006 Arkema Inc. All rights reserved.



Arkema Inc
2000 Market Street
Philadelphia, PA 19103
215-419-7000
www.arkema.com