tert-Butylmagnesium Chloride, typ. 25 % solution in Diethyl Ether (1.7 M)

CAS-No. 677-22-5
EC-No. 211-638-6
REACH No. 01-2120102495-64
Molecular Formula C₄H₉MgCl
Product Number 408472

APPLICATION
Grignard-reactions: reagent for the introduction of the tert-Butyl group. As base for deprotonation reactions. Strong, weakly nucleophilic base for deprotonation reactions.

FURTHER INGREDIENTS
Diethyl ether
CAS-No. 60-29-7
EC-No. 200-467-2

SPECIFICATION
tert-Butylmagnesium Chloride: 24 - 26 %

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

PHYSICAL PROPERTIES
Appearance liquid
Color dark brown
tert-Butylmagnesium Chloride, typ. 25 % solution in Diethyl Ether (1.7 M)
Product Number: 408472
Date of Issue: 2017/09/06

Crystallization temperature <= -10 °C
Flash point -45 °C (Diethyl ether)
Boiling point/boiling range ca. 34.7 °C at 1,013 hPa (Diethyl ether)
Density 0.8 g/cm³ at 20 °C
Water solubility (Not applicable)
Molecular weight 116.87 g/mol
Thermal Stability Crystallization below around -10 °C

HANDLING & STORAGE

Handling Organomagnesium compounds should only be handled under inert gas (nitrogen or argon). 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 CO₂-extinguishers. Pay attention to official safety regulations (see also: “Transport regulations” and “GHS Hazard Pictograms”).

Storage Under exclusion of air and humidity stable over practically unlimited periods. Keep container dry and tightly closed.

TRANSPORT & PACKAGING

UN number 3399

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Technical data sheets may change frequently. You can download the latest version from our website www.albemarle-lithium.com. Please contact us at www.albemarle-lithium.com/contact with questions.
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 (only for seafreight).

OTHER INFORMATION

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