iso-PropylMagnesium Bromide, typ. 15 % solution in Diethyl Ether (typ. 0.8 M)

CAS-No. 920-39-8
EC-No. 213-056-8
Molecular Formula $(\text{CH}_3)_2\text{CH-MgBr}$
Product Number 408495

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

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

SPECIFICATION
iso-PropylMagnesium Bromide: 14.0 – 16.0 %

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

PHYSICAL PROPERTIES
Appearance liquid
Color brown
** iso-Propylmagnesium Bromide, typ. 15 % solution in Diethyl Ether (typ. 0.8 M)  

Product Number: 408495  
Date of Issue: 2017/09/06

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystallization temperature</td>
<td>( \leq -20 ^\circ C )</td>
</tr>
<tr>
<td>Flash point</td>
<td>(-45 ^\circ C) (Diethyl ether)</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>ca. 34.7 (^\circ C) at 1,013 hPa (Diethyl ether)</td>
</tr>
<tr>
<td>Density</td>
<td>0.82 g/cm(^3) at 20 (^\circ C)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>(Not applicable)</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>147.30 g/mol</td>
</tr>
<tr>
<td>Thermal Stability</td>
<td>crystallisation below around –20 (^\circ C)</td>
</tr>
</tbody>
</table>

**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 CO\(_2\)-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

<table>
<thead>
<tr>
<th>Class</th>
<th>PG</th>
<th>Label</th>
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<tbody>
<tr>
<td>ADR</td>
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<tr>
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</tbody>
</table>

Packing instruction (cargo aircraft): 494
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 Documents
Safety Data Sheet

Our brochure(s)
Organomagnesium Compounds