Sodium tert-Butoxide, powder

CAS-No. 865-48-5
EC-No. 212-741-9
Molecular Formula C₄H₉NaO
Product Number 401225

APPLICATION
Deprotonation reactions in organic syntheses.

SPECIFICATION

<table>
<thead>
<tr>
<th>Sodium tert-Butoxide</th>
<th>min. 99 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NaOH + Na₂CO₃</td>
<td>max. 1.0 % *)</td>
</tr>
</tbody>
</table>

*) calculated as NaOH

METHOD OF ANALYSIS

Acidimetric titration of the hydrolyzed product for the determination of total base. Detailed description available on request. Determination of NaOH by Karl Fischer titration.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>white to light brown</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>254 °C</td>
</tr>
<tr>
<td>Density</td>
<td>1.04 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Bulk density</td>
<td>400 kg/m³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>(Not applicable)</td>
</tr>
</tbody>
</table>

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.

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.
Sodium tert-Butoxide, powder

Product Number: 401225
Date of Issue: 2017/09/06

Solubility in other solvents

- 30 g/L at 20 °C Medium: tert-butyl alcohol
- 70 g/L at 20 °C Medium: Toluene
- 130 g/L at 20 °C Medium: Hexane
- 380 g/L at 20 °C Medium: Tetrahydrofuran
- 50 g/L at 20 °C Medium: xylene
- 110 g/L at 20 °C Medium: octane
- 220 g/L at 20 °C Medium: Diethyl ether
- 450 g/L at 20 °C Medium: Dimethylformamide

Molecular weight
96.10 g/mol

HANDLING & STORAGE

Handling
Sodium tert-Butoxide should be handled under inert gas atmosphere. Avoid contact with eyes, skin and clothes as well as inhalation. Sodium tert-Butoxide decomposes in contact with humidity. Pay also attention to the Safety Data Sheet.

Storage
Sodium tert-Butoxide should be stored in tightly closed containers under exclusion of humidity at gentle temperatures.

Keep away from heat, sparks and fire. Pay also attention to the Safety Data Sheet.

TRANSPORT & PACKAGING

UN number 3206

<table>
<thead>
<tr>
<th>ADR</th>
<th>Class: 4.2</th>
<th>PG: II</th>
<th>Label: 4.2 (8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RID</td>
<td>Class: 4.2</td>
<td>PG: II</td>
<td>Label: 4.2 (8)</td>
</tr>
<tr>
<td>IMDG</td>
<td>Class: 4.2</td>
<td>PG: II</td>
<td>Label: 4.2 (8)</td>
</tr>
<tr>
<td>IATA_C</td>
<td>Class: 4.2</td>
<td>PG: II</td>
<td>Packing instruction (cargo aircraft): 470</td>
</tr>
<tr>
<td>IATA_P</td>
<td>Class: 4.2</td>
<td>PG: II</td>
<td>Packing instruction (passenger aircraft): 466</td>
</tr>
</tbody>
</table>

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.

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

Inner packing: Polyethylene bags up to 100 kg net.

Outer packing: 110 or 220 l open lid steel drums with 50 or 100 kg net.

OTHER INFORMATION

Further Related Documents Safety Data Sheet

Our brochure(s) Alkoxides, Trifolded - Specialties for Deprotonation