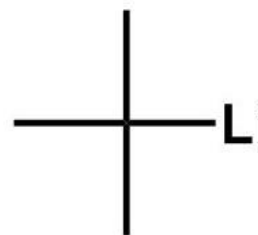


## TECHNICAL DATA SHEET

Date of Issue: 2025/02/25

# tert-Butyllithium, typ. 18 % solution in Heptane (typ. 2.0 M)



|                   |   |
|-------------------|---|
| CAS-No.           | 594-19-4                                  |
| EC-No.            | 209-831-5                                 |
| REACH No.         | 01-2120138354-60-0000                     |
| Molecular formula | C <sub>4</sub> H <sub>9</sub> Li          |
| Product number    | 10002060, 10006677, 10006697,<br>10007309 |

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**APPLICATION** Alkylating and metalating agent. Reagent for the introduction of the tert-butyl group.

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### SPECIFICATION

tert-Butyllithium: 17,0 - 19,0 %

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### METHOD OF ANALYSIS

Determination of assay as active base. Detailed description available on request.

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### PHYSICAL PROPERTIES

|            |              |
|------------|--------------|
| Appearance | liquid       |
| Color      | light yellow |

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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.com](http://www.albemarle.com).

Please contact us at [www.albemarle.com/contact](http://www.albemarle.com/contact) with questions.

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|                             |                                |
|-----------------------------|--------------------------------|
| Melting point/range         | < -20 °C (Heptane)             |
| Flash point                 | 0 °C 1,013 hPa (Heptane)       |
| Boiling point/boiling range | 83 - 105 °C (Heptane)          |
| Density                     | 0.7 g/cm <sup>3</sup> at 20 °C |
| Water solubility            | (Not applicable)               |
| Molecular weight            | 64.06 g/mol                    |

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## HANDLING & STORAGE

**Handling** tert.-Butyllithium should only be handled under inert gas atmosphere. Catches fire spontaneously if exposed to air. Avoid contact with eyes, skin and clothes as well as inhalation. 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. Take measures against electrostatic discharges. Protect from frost, heat and sunlight. 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<sub>2</sub>-extinguishers. Pay attention to the safety data sheet.

**Storage** When stored according to SDS the material has limited stability due to decomposition over time. We therefore recommend to retest the material 6 months after date of analysis if included on CoA. If not included, use the date of manufacturing for the calculation.  
The danger of ignition is enhanced if the solution comes in contact with surface rich materials (paper, textiles) or if it is sprayed. To keep the quality a storage of 0-10 °C is recommended. The solution should be stored in tightly closed containers in a well ventilated cool place.

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## TRANSPORT & PACKAGING

UN number 3394

|        |            |       |                  |
|--------|------------|-------|------------------|
| ADR    | Class: 4.2 | PG: I | Label: 4.2 (4.3) |
| RID    | Class: 4.2 | PG: I | Label: 4.2 (4.3) |
| IMDG   | Class: 4.2 | PG: I | Label: 4.2 (4.3) |
| IATA_C | Class: 4.2 |       |                  |
| IATA_P | Class: 4.2 |       |                  |

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 and containers with nominal volumes of 110, 127 and 450 L. For safety reasons these are filled to a maximum of 90 %.

## OTHER INFORMATION

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

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