



# Product Specification

## Product Name: DIETHYL ETHER LR, stabilised with BHT

Alternate Name(s) DIETHYL ETHER (ETHYL ETHER)

### Description

Clear, colourless, volatile liquid, with a characteristic odour; burning and sweet taste. Hygroscopic.

### Properties

Chemical Formula:  $(C_2H_5)_2O$

Molecular Weight: 74.12

Product Code: EL012

CAS No. 60-29-7

### General Information:

Strongly narcotic - vapours may cause drowsiness or dizziness. In the presence of oxygen or on long standing or exposure to sunlight unstable peroxides may form. Extremely flammable; severe fire & explosion hazard.

### Quality Specification

Assay: 98.0% min.

### Specific Properties and Impurities [Typical levels]:

Peroxide (as $H_2O_2$ )	$\leq 0.5\%$
Non-volatile matter	$\leq 0.002\%$
Acidity	$\leq 10 \text{ mg/L}$
Preservative (BHT)	$\leq 0.0007\%$
Water	$\leq 0.01\%$
Ketones & aldehyde	Passes BP test

### Hazard and Safety Data

UN Group:	I
Class:	3
UN Number:	1155
Hazchem code:	3YE
CS MSDS Code:	1CH2M
Poison schedule:	S6
Emergency Procedure Guide No.:	14

Flash Point	-40°C
Boiling Range	33.5 - 34.5°C
Density @ 20 °C	0.714 - 0.716
Freezing point	-116.2°C
Boiling Point	34.5 °C
Flash Point	-45 °C
Flamm. Limit LEL	1.7 Vol%
Flamm. Limit UEL	36 Vol%
Solubility in Water	69 g/L (20 °C)
Autoignition Temp.	180 °C
Surface Tension (dynes/cm, 20°C)	17.0
Refractive Index (n 20/D)	1.3526
Viscosity	0.00233 cP
Vapour Pressure	589 hPa (20°C)
Vapour Density	2.56 (air = 1)

Chem-Supply Pty Ltd - An ISO 9001:2008 Accredited Company

38 - 50 Bedford Street, Gillman SA 5013, Australia ABN 19 008 264 211 PO Box 201, Port Adelaide SA 5015, Australia  
Telephone +61 8 8440 2000 Fax +61 8 8440 2001 E-mail: sales@chemsupply.com.au Web: www.chemsupply.com.au

Chem-Supply does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product for any intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product for any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement or supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

---

**Chem-Supply Pty Ltd - An ISO 9001:2008 Accredited Company**

**38 - 50 Bedford Street, Gillman SA 5013, Australia ABN 19 008 264 211 PO Box 201, Port Adelaide SA 5015, Australia  
Telephone +61 8 8440 2000 Fax +61 8 8440 2001 E-mail: [sales@chemsupply.com.au](mailto:sales@chemsupply.com.au) Web: [www.chemsupply.com.au](http://www.chemsupply.com.au)**

Chem-Supply does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product for any intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product for any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement or supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.