



# Product Specification

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

Alternate Name(s) Ethyl Ether, ethyl oxide, diethyl oxide

### Description

Colourless, transparent, volatile and mobile liquid, with a pleasant aromatic odour; burning and sweet taste.

Hygroscopic.

### Properties

Chemical Formula:  $(C_2H_5)_2O$

Molecular Weight: 74.12

Product Code: EA012

CAS No. 60-29-7

### General Information:

Strongly narcotic - vapors 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

Typical Assay: 99.5% min.

### 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

### Specific Properties and Impurities [Typical Levels]

Density @ 20 °C	0.714 - 0.716	Boiling Point	34.5°C
Colour (APHA)	≤ 10	Peroxide (as H <sub>2</sub> O <sub>2</sub> )	≤ 0.000015%
Titration acid	≤ 0.0002 meq/g	Titration base	≤ 0.0002 meq/g
Carbonyl (as HCHO)	≤ 0.001%	Water (H <sub>2</sub> O)	≤ 0.05%
Residue after evaporation	≤ 0.0005%	Acetone	≤ 0.005%
Carbon tetrachloride	≤ 0.005%	Ethanol and methanol	≤ 0.02%
Chloride (Cl)	≤ 0.00003%	Sulfate (SO <sub>4</sub> )	≤ 0.00003%
Substances darkened by sul	Passes test	Aluminium (Al)	≤ 0.00002%
Barium (Ba)	≤ 0.000005%	Boron (B)	≤ 0.000001%
Cadmium (Cd)	≤ 0.000002%	Calcium (Ca)	≤ 0.00002%
Chromium (Cr)	≤ 0.000001%	Cobalt (Co)	≤ 0.000001%
Copper (Cu)	≤ 0.000001%	Iron (Fe)	≤ 0.000005%
Lead (Pb)	≤ 0.000005%	Magnesium (Mg)	≤ 0.000005%
Manganese (Mn)	≤ 0.000001%	Nickel (Ni)	≤ 0.000001%
Tin (Sn)	≤ 0.000005%	Zinc (Zn)	≤ 0.000005%
Stabilised with BHT	~ 0.0005%		

CONFORMS TO ACS

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