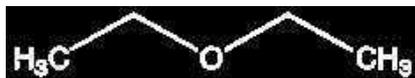


## DIETHYL ETHER



- Synonyms: Ethyl ether, Ethyl oxide, Ether
- C<sub>4</sub>H<sub>10</sub>O
- M = 74,12 g/mol
- CAS [60-29-7]
- EINECS-No.: 200-467-2
- Density: 0,71 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 69 g/l
- Melting point: -116,3 °C
- Boiling point: 34,6 °C
- Flash pt. -40 °C
- Ignition temp.: 170 °C
- Vapour pressure: (20 °C) 587 hPa
- Dielectric const.: (20 °C) 4,3
- LD 50 (oral, rat): 1215 mg/kg

- EC-Index-No.: 603-022-00-4
- ADR: 3 F1 I UN 1155
- IMDG: 3 I UN 1155
- IATA/ICAO: 3 I UN 1155
- GHS-signal word: Danger
- GHS-H sentences: H224 - H302 - H336 - EUH019 - EUH066
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2909 11 00 00
- Applications: solvents, synthesis of organic products, solvent for active principles from plant and animal tissues extractions.

ET0077 Diethyl ether, EssentQ®, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) . . . . . min. 99,5 %  
 identity (IR-spectrum) . . . . . passes test  
 density (20°/4°) . . . . . 0,713 - 0,715  
 peroxides (as H<sub>2</sub>O<sub>2</sub>) . . . . . max. 0,0003 %  
 residue on evaporation . . . . . max. 0,003 %  
 water (K.F.) . . . . . max. 0,1 %

ART. NO.	VOLUME	CONTAINER
ET00771000	1 l	
ET00772500	2,5l	
ET0077005M	5 l	
ET0077007E	7 l	

ART. NO.	VOLUME	CONTAINER
ET0077025L	25 l	
ET0077025S	25 l	
ET0077030S	30 l	
ET0077200E	200 l	

ET0078 Diethyl ether, extra pure, Pharmpur®, Ph Eur, BP, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) . . . . . min. 99,5 %  
 identification . . . . . passes test  
 density (20°/20°) . . . . . 0,714 - 0,716  
 distillation range . . . . . 34,0 - 35,0 °C  
 acidity . . . . . passes test  
 aldehydes . . . . . passes test  
 peroxides . . . . . passes test  
 low-boiling hydrocarbons . . . . . max. 0,2 %  
 substances with a foreign odour . . . . . passes test  
 residue on evaporation . . . . . max. 0,002 %  
 water (K.F.) . . . . . max. 0,05 %

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
ET00781000	1 l	
ET00782500	2,5 l	
ET0078005M	5 l	
ET0078007E	7 l	
ET0078025A	25 l	
ET0078025S	25 l	
ET0078200L	200 l	

ET0079 Diethyl ether, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) . . . . . min. 99,8 %  
 identity (IR-spectrum) . . . . . passes test  
 density (20°/20°) . . . . . 0,713 - 0,714  
 distillation range . . . . . 34,0 - 35,0 °C  
 appearance . . . . . clear and colourless  
 colour (Hazen) . . . . . max. 10  
 acidity . . . . . max. 0,0002 meq/g  
 alkalinity . . . . . max. 0,0002 meq/g  
 alcohol (as ethanol) . . . . . passes test  
 chlorides (Cl) . . . . . max. 0,00003 %  
 sulfates (SO<sub>4</sub>) . . . . . max. 0,00003 %  
 aluminium (Al) . . . . . max. 0,5 ppm  
 barium (Ba) . . . . . max. 0,1 ppm  
 boron (B) . . . . . max. 0,02 ppm  
 cadmium (Cd) . . . . . max. 0,05 ppm  
 calcium (Ca) . . . . . max. 0,5 ppm  
 chromium (Cr) . . . . . max. 0,02 ppm  
 cobalt (Co) . . . . . max. 0,02 ppm

copper (Cu) . . . . . max. 0,02 ppm  
 iron (Fe) . . . . . max. 0,1 ppm  
 lead (Pb) . . . . . max. 0,1 ppm  
 magnesium (Mg) . . . . . max. 0,1 ppm  
 manganese (Mn) . . . . . max. 0,02 ppm  
 nickel (Ni) . . . . . max. 0,02 ppm  
 tin (Sn) . . . . . max. 0,1 ppm  
 zinc (Zn) . . . . . max. 0,1 ppm  
 acetone (G.C.) . . . . . max. 0,005 %  
 ethanol (G.C.) . . . . . max. 0,02 %  
 methanol (G.C.) . . . . . max. 0,02 %  
 carbonyl compounds (as CO) . . . . . max. 0,001 %  
 carbonyl compounds (as HCHO) . . . . . max. 0,001 %  
 peroxides (as H<sub>2</sub>O<sub>2</sub>) . . . . . max. 0,000015 %  
 peroxides . . . . . passes test  
 substances darkened by H<sub>2</sub>SO<sub>4</sub> . . . . . passes test  
 residue on evaporation . . . . . max. 0,001 %  
 water (K.F.) . . . . . max. 0,01 %

ART. NO.	VOLUME	CONTAINER
ET00791000	1 l	
ET00792500	2,5 l	
ET0079005M	5 l	
ET0079007E	7 l	
ET0079025A	25 l	
ET0079025S	25 l	
ET0079200L	200 l	

ET0080 Diethyl ether, dried (max. 0,0075% H<sub>2</sub>O), ExpertQ®, for analysis, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) . . . . . min. 99,5 %  
 identity (IR-spectrum) . . . . . passes test  
 density (20°/4°) . . . . . 0,713 - 0,715  
 colour (Hazen) . . . . . max. 10  
 appearance . . . . . clear  
 acidity . . . . . max. 0,0002 meq/g  
 alkalinity . . . . . max. 0,0002 meq/g  
 aluminium (Al) . . . . . max. 0,5 ppm  
 barium (Ba) . . . . . max. 0,1 ppm  
 boron (B) . . . . . max. 0,02 ppm  
 cadmium (Cd) . . . . . max. 0,05 ppm  
 calcium (Ca) . . . . . max. 0,5 ppm  
 chromium (Cr) . . . . . max. 0,02 ppm  
 copper (Cu) . . . . . max. 0,02 ppm  
 iron (Fe) . . . . . max. 0,1 ppm  
 lead (Pb) . . . . . max. 0,1 ppm

magnesium (Mg) . . . . . max. 0,1 ppm  
 manganese (Mn) . . . . . max. 0,02 ppm  
 nickel (Ni) . . . . . max. 0,02 ppm  
 tin (Sn) . . . . . max. 0,1 ppm  
 zinc (Zn) . . . . . max. 0,1 ppm  
 acetone (G.C.) . . . . . max. 0,005 %  
 ethanol (G.C.) . . . . . max. 0,02 %  
 methanol (G.C.) . . . . . max. 0,02 %  
 aldehydes (as CH<sub>3</sub>CHO) . . . . . max. 0,001 %  
 carbonyl compounds (as CO) . . . . . max. 0,001 %  
 peroxides (as H<sub>2</sub>O<sub>2</sub>) . . . . . max. 0,00003 %  
 sulfur compounds (as S) . . . . . max. 0,00006 %  
 substances darkened by H<sub>2</sub>SO<sub>4</sub> . . . . . passes test  
 residue on evaporation . . . . . max. 0,001 %  
 water (K.F.) . . . . . max. 0,0075 %

ART. NO.	VOLUME	CONTAINER
ET00801000	1 l	
ET00802500	2,5 l	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z