

**ETHANOL ABSOLUTE**



- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C<sub>2</sub>H<sub>5</sub>OH
- M = 46,07 g/mol
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,79 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -114,5 °C
- Boiling point: 78,3 °C
- Flash pt. 12 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 59 hPa
- Dielectric const.: (25 °C) 24,3
- LD 50 (oral, rat): 6200 mg/kg
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 II UN 1170
- IMDG: 3 II UN 1170
- IATA/ICAO: 3 II UN 1170
- GHS-signal word: Danger
- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2207 10 00 90
- Applications: solvents, disinfectant, for pharmaceutical use, synthesis of organic products, perfumery.

**ET0002 Ethanol absolute, EssentQ®**



assay (G.C.) (v/v) . . . . . min. 99,9 %  
identity (IR-spectrum) . . . . . passes test  
density (20°/4°) . . . . . 0,789 - 0,790  
residue on evaporation . . . . . max. 0,005 %  
water (v/v) (K.F.) . . . . . max. 0,1 %

ART. NO.	VOLUME	CONTAINER
ET00021000	1 l	Ⓜ
ET00022500	2,5 l	Ⓜ
ET0002005P	5 l	Ⓜ

ART. NO.	VOLUME	CONTAINER
ET0002010C	10 l	Ⓜ
ET0002025P	25 l	Ⓜ
ET0002025S	25 l	Ⓜ

**ET0006 Ethanol absolute, extra pure, Pharmpur®, Ph Eur, BP, USP**



assay (G.C.) (v/v) . . . . . min. 99,5 %  
assay (G.C.) (w/w) . . . . . min. 99,2 %  
identification . . . . . passes test  
density (20°/20°) . . . . . 0,790 - 0,793  
appearance . . . . . clear and colourless  
acidity or alkalinity (as acetic acid) . . . . . max. 0,003 %  
colour (Hazen) . . . . . max. 10  
acetaldehyde + acetal (as CH<sub>3</sub>CHO) . . . . . max. 0,001 %  
benzene (G.C.) . . . . . max. 0,0002 %  
methanol (G.C.) . . . . . max. 0,02 %  
total of other impurities (G.C.) . . . . . max. 0,03 %  
reducing substances . . . . . passes test

residue on evaporation . . . . . max. 0,001 %  
absorbance in a 5,0 cm cell  
at 240 nm . . . . . max. 0,40  
between 250 and 260 nm . . . . . max. 0,30  
between 270 and 340 nm . . . . . max. 0,10  
Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.  
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
ET00061000	1 l	Ⓜ
ET00062500	2,5 l	Ⓜ
ET0006005P	5 l	Ⓜ
ET0006010C	10 l	Ⓜ
ET0006025A	25 l	Ⓜ
ET0006025L	25 l	Ⓜ
ET0006025P	25 l	Ⓜ
ET0006025S	25 l	Ⓜ

**ET0005 Ethanol absolute, ExpertQ®, for analysis, ACS, ISO**



assay (G.C.) (v/v) . . . . . min. 99,9 %  
identity (IR-spectrum) . . . . . passes test  
density (20°/4°) . . . . . 0,789 - 0,790  
appearance . . . . . clear  
colour (Hazen) . . . . . max. 10  
acidity . . . . . max. 0,0002 meq/g  
solubility in water . . . . . passes test  
acidity or alkalinity . . . . . max. 0,0003 %  
chlorides (Cl) . . . . . max. 0,00003 %  
nitrates (NO<sub>3</sub>) . . . . . max. 0,00003 %  
phosphates (as PO<sub>4</sub>) . . . . . max. 0,00003 %  
sulfates (SO<sub>4</sub>) . . . . . max. 0,00003 %  
aluminium (Al) . . . . . max. 0,5 ppm  
antimony (Sb) . . . . . max. 0,02 ppm  
arsenic (As) . . . . . max. 0,02 ppm  
barium (Ba) . . . . . max. 0,1 ppm  
beryllium (Be) . . . . . max. 0,02 ppm  
bismuth (Bi) . . . . . max. 0,02 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  
gallium (Ga) . . . . . max. 0,02 ppm  
gold (Au) . . . . . max. 0,02 ppm  
indium (In) . . . . . max. 0,02 ppm  
iron (Fe) . . . . . max. 0,1 ppm  
lead (Pb) . . . . . max. 0,1 ppm  
lithium (Li) . . . . . max. 0,02 ppm

magnesium (Mg) . . . . . max. 0,1 ppm  
manganese (Mn) . . . . . max. 0,02 ppm  
molybdenum (Mo) . . . . . max. 0,05 ppm  
nickel (Ni) . . . . . max. 0,02 ppm  
platinum (Pt) . . . . . max. 0,02 ppm  
silver (Ag) . . . . . max. 0,02 ppm  
thallium (Tl) . . . . . max. 0,02 ppm  
tin (Sn) . . . . . max. 0,1 ppm  
titanium (Ti) . . . . . max. 0,02 ppm  
vanadium (V) . . . . . max. 0,02 ppm  
zinc (Zn) . . . . . max. 0,1 ppm  
zirconium (Zr) . . . . . max. 0,02 ppm  
formaldehyde . . . . . max. 0,0005 %  
furfural . . . . . passes test  
fusel oil . . . . . passes test  
acetaldehyde and acetal (G.C.) . . . . . max. 0,001 %  
acetone (G.C.) . . . . . max. 0,001 %  
isoamyl alcohol (G.C.) . . . . . max. 0,05 %  
benzene (G.C.) . . . . . max. 0,0002 %  
methanol (G.C.) . . . . . max. 0,01 %  
methylethylketone (G.C.) . . . . . max. 0,02 %  
2-propanol (G.C.) . . . . . max. 0,003 %  
higher alcohols (G.C.) . . . . . max. 0,01 %  
aldehydes (as CH<sub>3</sub>CHO) . . . . . max. 0,001 %  
carbonyl compounds (as CO) . . . . . max. 0,003 %  
substances darkened by H<sub>2</sub>SO<sub>4</sub> . . . . . passes test  
UV spectroscopy . . . . . passes test  
substances reducing KMnO<sub>4</sub> . . . . . passes test  
residue on evaporation . . . . . max. 0,0005 %  
water (v/v) (K.F.) . . . . . max. 0,1 %

ART. NO.	VOLUME	CONTAINER
ET00051000	1 l	Ⓜ
ET00052500	2,5 l	Ⓜ
ET0005005P	5 l	Ⓜ
ET0005007E	7 l	Ⓜ
ET0005025A	25 l	Ⓜ
ET0005025P	25 l	Ⓜ
ET0005025S	25 l	Ⓜ
ET0005200L	200 l	Ⓜ