

Specification

Ethanol absolute (Ph. Eur., USP) pure, pharma grade

A4230

Refractive Index:	n ₂₀ /D 1.3611 (abs.)
Physical Description:	Liquid
Product Code:	A4230
Product Name:	Ethanol absolute (Ph. Eur., USP) pure, pharma grade
Headline Comment:	This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt.
Specifications:	Assay (v/v): min. 99.5 % Assay (w/w): min. 99.2 % Appearance: passes test Volatile impurities (GC): passes test Identity: passes test Non-volatile matter: max. 25 mg/L Density (d 15.56°C/15.56°C): max. 0.7962 Density (d 20°C/20°C): 0.790 - 0.793 Acidic/alkaline react. subst.: max. 0.003 % (as AcOH) Sum of further impurities: max. 0.03 % Acetaldehyde and Acetal: max. 0.001 % (v/v) Benzene: max. 0.0002 % (v/v) Methanol: max. 0.02 % (v/v) Absorption (5 cm/water HPLC grade) 240 nm: max. 0.40 250 - 260 nm: max. 0.30 270 - 340 nm: max. 0.10 Elemental impurities (according to ICH Q3D): Class 1 (Cd): max. 0.5 ppm Class 2B (Au): max. 10 ppm Class 2B (Rh): max. 10 ppm Class 2A (Co): max. 5 ppm Class 3 (Li): max. 55 ppm Class 1 (Pb): max. 0.5 ppm

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Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • info.de@itwreagents.com • www.itwreagents.com
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 007 225 00192 • Register court Darmstadt HRB Nr. 7340

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Class 1 (As): max. 1.5 ppm Class 1 (Hg): max. 1.5 ppm Class 2A (V): max. 10 ppm Class 2A (Ni): max. 20 ppm Class 2B (Tl): max. 0.8 ppm Class 2B (Pd): max. 10 ppm Class 2B (Ir): max. 10 ppm Class 2B (Os): max. 10 ppm Class 2B (Ru): max. 10 ppm Class 2B (Pt): max. 10 ppm Class 2B (Se): max. 15 ppm Class 2B (Ag): max. 15 ppm Class 3 (Sb): max. 120 ppm Class 3 (Ba): max. 140 ppm Class 3 (Mo): max. 25 ppm Class 3 (Cr): max. 25 ppm Class 3 (Cu): max. 250 ppm Class 3 (Sn): max. 600 ppm	
Hazard pictograms	 
UN:	1170
Class/PG:	3/II
ADR:	3/II
IMDG:	3/II
IATA:	3/II
WGK:	1

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Storage:	RT
Signal Word:	Danger
GHS Symbols:	GHS02 GHS07
H Phrases:	H225 H319
P Phrases:	P210 P233 P241 P280 P305+P351+P338 P501
Molecular Formula:	CH ₃ CH ₂ OH
M:	46.07 g/mol
CAS:	64-17-5
EINECS:	200-578-6
CS:	22071000
Index Nr.:	603-002-00-5

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