

Ethanol

Ethanol, also called alcohol, ethyl alcohol, and drinking alcohol, is a chemical compound, a simple alcohol with the chemical formula C_2H_5OH . Its formula can be written also as CH_3-CH_2-OH or C_2H_5-OH (an ethyl group linked to a hydroxyl group), and it is often abbreviated as **EtOH**. Ethanol is a volatile, flammable, colorless liquid with a slight characteristic odor. It is a psychoactive substance and it is the principal type of alcohol found in alcoholic drinks.

Ethanol is naturally produced by the fermentation of sugars by yeasts or via petrochemical processes, and it is most commonly consumed as a popular recreational drug. It also has medical applications as an antiseptic and disinfectant and in laboratory processes. The compound is widely used as a chemical solvent, either for scientific chemical testing or in synthesis of other organic compounds, and it is a vital substance utilized across many different kinds of manufacturing industries. Ethanol is also used as a clean-burning fuel source.



We offer three different types of ethanol according to its purity:

- **Clean Ethanol** does not contain other substances but water, depending of its concentration: absolute, 96%, 70%, etc. Their main applications are: Clinical Diagnosis (with CE mark), Instrumental Analysis, General Solvent for chemical and biochemical laboratory applications.
- **Completely Denatured Ethanol**, also called methylated spirit or denatured rectified spirit, it is ethanol that has additives to make it poisonous, bad tasting, foul smelling or nauseating, to discourage recreational consumption. In some cases it is also dyed. According to the new European Regulation (EU) 2016/1867 of 20 October 2016, it contains IPA, MEK and Bitrex as denaturing agents. We can find purities of 99.9%, 96% and 70%. Their main applications are: clinical diagnosis and general solvent in chemical and biochemical laboratory.
- Finally, *only in Spain* it is typically commercialized the **Partially Denatured Ethanol** which contains 0.3% v/v of Diethyl Phthalate and 2 ppm of Bitrex and has no colours. We offer absolute and 96% purity. Their main applications are: clinical diagnosis and technical chemical solvent.



Depending on the country, different product codes from PanReac AppliChem have to be ordered by the customer.

As ethanol is a very controlled product by the administrations, it is charged directly or indirectly with taxes:

- **Clean Ethanol:** the user has to pay a tax or needs an authorisation.
- **Completely Denatured Ethanol:** authorisation is needed.
- **Partially Denatured Ethanol (only in Spain):** authorisation is needed.

1 Clean Ethanol (not for sale in Germany)

Product code	Product name	Pack size	
221086.1611	Ethanol absolute	1 L	
221086.1612	for HPLC gradient	2.5 L	
361086.1611	Ethanol absolute for UV, IR, HPLC	1 L	
361086.1612		2.5 L	
361086.16153		4 L	
481086.1611	Ethanol absolute dry (max. 0.02% water)	1 L	
131086.1611	Ethanol absolute (Reag. USP, Ph. Eur.) for analysis, ACS, ISO	1 L	
131086.1211		1 L	
131086.1612		2.5 L	
131086.1212		2.5 L	
131086.1214		5 L	
131086.1315		10 L	
131086.0716		25 L	
131086.0516		25 L	
191086.1211		Ethanol absolute (USP, BP, Ph.Eur.) pharma grade	1 L
191086.1612			2.5 L
191086.1212	2.5 L		
191086.1214	5 L		
191086.9914	5 L		
191086.0716	25 L		
191086.0719	200 L		
191086.0819	200 L		
141086.1211	Ethanol absolute pure	1 L	
141086.1212		2.5 L	
141086.1214		5 L	
141086.1315		10 L	
141086.0716		25 L	
251086.1211	Ethanol absolute for clinical diagnosis	1 L	
251086.1212		2.5 L	
251086.9914		5 L	
251086.1214		5 L	
251086.1215		10 L	
251086.1315		10 L	

Product code	Product name	Pack size
161086.1211	Ethanol absolute, 99.5% for synthesis	1 L
161086.1714		5 L
161086.0616		25 L
631086.0716	Ethanol absolute GMP - IPEC grade	25 L
631086.0719		200 L
361085.1611	Ethanol 96% v/v for UV, IR, HPLC	1 L
361085.0537		30 L
131085.1611	Ethanol 96% v/v (Reag. USP, Ph. Eur.) for analysis, ACS	1 L
131085.1211		1 L
131085.1612		2.5 L
131085.1212		2.5 L
131085.1214		5 L
131085.1315		10 L
131085.0716		25 L
631085.1214		5 L
631085.0716	Ethanol 96% v/v GMP - IPEC grade	25 L
141085.1211		1 L
141085.1212	Ethanol 96% v/v (USP, BP, Ph.Eur.) pure, pharma grade	2.5 L
141085.1214		5 L
141085.1315		10 L
141085.0716		25 L
141085.0719		200 L
141085.9774		1000 L
201085.1214	Ethanol 96% v/v food grade	5 L
251085.1212	Ethanol 96% v/v for clinical diagnosis	2.5 L
251085.1214		5 L
192695.1211	Ethanol 70% v/v (BP) pharma grade	1 L
192695.1212		2.5 L
192695.1214		5 L
192695.1315		10 L
192695.0516		25 L
202695.1214	Ethanol 70% v/v food grade	5 L
202695.0716		25 L



2 Clean Ethanol (available in all countries)

Product code	Product name	Pack size
A8075,1000PE	Ethanol absolute for molecular biology	1 L
A8075,2500PE		2.5 L

3 Clean Ethanol (only for sale in Germany)

Product code	Product name	Pack size
A3678,0250	Ethanol absolute for molecular biology	250 mL
A3678,0500		500 mL
A3678,1000		1 L
A3678,2500		2.5 L
A1613,1000GL		1 L
A1613,1000PE	Ethanol absolute for analysis	1 L
A1613,2500PE		2.5 L
A1613,2500GL		2.5 L
A1613,5000PE		5 L
A4230,1000GL		1 L
A4230,1000PE	Ethanol absolute (Ph. Eur., USP) pure, pharma grade	1 L
A4230,2500GL		2.5 L
A4230,2500PE		2.5 L
A1868,1000		1 L
A1615,2500GL	Ethanol 96% v/v for analysis	2.5 L
A1615,2500PE		2.5 L
A1615,5000PE		5 L
A1615,9025PE		25 L
A2192,1000PE	Ethanol 70% for analysis	1 L
A2192,5000		5 L
A0913,0250	Ethanol 70% (DAB) pure, pharma grade	250 mL
A0913,1000		1 L
A0913,5000		5 L



4 Completely Denatured Ethanol (not available in Spain)

Product code	Product name	Pack size
For sale in Italy		
NC808005000	Ethanol absolute denatured pure	5 L
NC202005000	Ethanol 94% denatured pure	5 L
For sale in Rest of Europe (colourless)		
127194.1212	Ethanol 99.8% denatured with IPA, MEK and Bitrex for analysis	2.5 L
147194.1212	Ethanol 99.8% denatured with IPA, MEK and Bitrex pure	2.5 L
147194.1214		5 L
147194.1215		10 L
147194.0716		25 L
147194.0616		25 L
147195.1211	Ethanol 96% denatured with IPA, MEK and Bitrex pure	1 L
147195.1212		2.5 L
147195.1214		5 L
147195.0716		25 L
147196.1212	Ethanol 70% denatured with IPA, MEK and Bitrex pure	2.5 L
147196.1214		5 L
147196.1215		10 L

5 Partially Denatured Ethanol (only for sale in Spain)

Product code	Product name	Pack size
212801.1211	Ethanol absolute partially denatured technical grade	1 L
212801.1214		5 L
212801.2814		5 L
212801.1315		10 L
212801.0716		25 L
212800.1214	Ethanol 96% v/v partially denatured technical grade	5 L
212800.1315		10 L
212800.0716		25 L
212800.1074		1000 L





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