

Bioethanol

Denaturated Bioethanol

ASTM D4806-09

Specification	Value	Test Method
Appearance	homogeneous, transparent liquid from colorless to light yellow color, free of mechanical impurities	
Volume fraction of ethyl alcohol	92,1 vol.%, min	ASTM D 5501
Volume fraction of methyl alcohol	0,5 vol.%, max	ASTM D 5501
Water content	1 vol.%, max	ASTM E 203 or E 1064
Solvent-washed gum	5 mg/100 ml, max	ASTM D 381
Denaturant Content	1,96-5 vol.%, min.-max	Calculated
Acidity (as acetic acid)	56 mg/l, max	ASTM D 1613
pH	6,5-9	ASTM D 6423
Inorganic chloride content	8 mg/l, max	ASTM D 7319 or 7328
Copper content	0,1 mg/kg, max	ASTM D 1688
Mass fraction of sulphur	30 mass ppm, max	ASTM D 2622, D 3120 or D 5453
Mass fraction of sulphate	4 mass ppm, max	ASTM D 7318, D 7319, D 7328

Bioethanol

Not-Denaturated Bioethanol

EN 15376:2014

Specification	Value	Test Method
Appearance	transparent and colorless	EN 15721
Volume fraction of ethyl alcohol	98,7 % (ml m), min.	EN 15721
Volume fraction of methyl alcohol	1 % (ml m), max.	EN 15721
Higher saturated alcohol content	2 % (ml m), max.	EN 15721
Water content	0,3 % (ml m), max.	EN 15489 EN 15692
Acidity (as acetic acid)	0,007 % (ml m), max.	EN 15491
Electrical conductivity	2,5 μ S/cm	EN 15938
Inorganic chloride content	1,5 mg/kg, max.	EN 15492
Copper content	0,1 mg/kg, max.	EN 15488 EN 15837
Mass fraction of sulphur	10 mg/kg, max.	EN 15485 EN 15486 EN 15837
Mass fraction of phosphorus	0,15 mg/l, max.	EN 15487 EN 15837
Mass fraction of sulphate	3 mg/kg, max.	EN 15492
Non-volatile content	10 mg/100 ml	EN 15691

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Denaturated Fuel Ethanol**GB 18350-2013**

Specification	Value
Appearance	homogeneous, transparent liquid from colorless to light yellow color, free of mechanical impurities
Volume fraction of ethyl alcohol	92,1 vol.%, min
Volume fraction of methyl alcohol	0,5 wt.%, min
Water content	0,8 wtl.%, max
Solvent-washed gum	5 mg/100 ml, max
Acidity (as acetic acid)	56 mg/l, max
pH	6,5-9
Inorganic chloride content	8 mg/l, max
Copper content	0,008 mg/l, max
Mass fraction of sulphur	30 mg/kg, max