

SYSTEM

Specification

PRODUCT NAME : Ethyl Alcohol 99.5%(w/w), *denatured, ChemAR*[®]
 (Ethanol Absolute)
 CATALOGUE NUMBER : ET165-50
 FORMULA : C₂H₅OH
 MOLECULAR WEIGHT : 46.07
 CAS. NUMBER : [64-17-5]

IMDG class: 3 UN No :1170 Packaging group : II

HAZARD STATEMENT:

H225,H301,H302,H312,H332,H370,H371

PRECAUTIONARY STATEMENT:

P210,P271,P280,P501

Risiko (Risks):R11,R20/21/22,R68/20/21/22,R23/24/25,R39/23/24/25

Keselamatan (Safety):S16,S36/37

	Specification	
Assay	min.99.5(w/w)	%
	min.99.7(v/v)	%
Water(H ₂ O)	max.0.2	%
Identity IR Spectrum	passes	test
Acidity(as CH ₃ COOH)	max.0.001	%
Insoluble matter in water	passes	test
Alkalinity(as NH ₃)	passes	test
Non-volatile matter	max.0.0005	%
Aldehydes and Ketones	max.0.005	%
Furfuraldehyde(C ₅ H ₄ O ₂)	max.0.001	%
Fused oil	passes	test
Acetone(GC)	max.0.01	%
Iso-amyl alcohol(GC)	max.0.1	%
Sec-butyl alcohol(GC)	max.0.05	%
Methanol(GC)	max.5	%
Zinc(Zn)	max.0.00001	%
2-Propanol(GC)	max.0.05	%
Butanone(GC)	max.0.05	%
Reducingmatter by KMnO ₄	passes	test
Substances darkened by H ₂ SO ₄	passes	test
Cadmium(Cd)	max.0.000005	%
Calcium(Ca)	max.0.00005	%
Chromium(Cr)	max.0.000002	%
Cobalt(Co)	max.0.000002	%
Copper(Cu)	max.0.00001	%
Iron(Fe)	max.0.00001	%
Lead(Pb)	max.0.00001	%
Magnesium(Mg)	max.0.00001	%
Manganese(Mn)	max.0.000002	%
Nickel(Ni)	max.0.000002	%
Wt/ml at 20 ^o C	0.79g	
Melting point:	-117 ^o C	
Boiling point:	78 ^o C	

This is to certify that the above ethanol has been denatured with 5% methanol.



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