

Specification

1.00971.2500 Ethanol 96% EMPROVE® EXPERT Ph Eur, BP, ChP

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A = = = \(\land \	00.6 05.0	%	
Assay (m/m)	92.6 - 95.2	%	
Assay (V/V)	95.1 - 96.9	%	
Identity (IR)	conforms		
Identity 1 (ChP)	conforms		
Appearance	conforms		
Clarity and color of solution (ChP)	conforms		
Acidity or alkalinity	≤ 30	ppm	
Acidity or alkalinity (ChP)	conforms		
Density (d 20 °C/20 °C)	0.805 - 0.812		
Density (d 20 °C/20 °C) (ChP)	≤ 0.8129		
Absorbance (at 240 nm)	≤ 0.40		
Absorbance (between 250 nm and 260 nm)	≤ 0.30		
Absorbance (between 270 nm and 340 nm)	≤ 0.10		
The spectrum shows a steadily descending curve with no observable peaks or shoulders	conforms		
Absorbance (ChP) (at 240 nm)	≤ 0.08		
Absorbance (ChP) (between 250 nm and 260 nm)	≤ 0.06		
Absorbance (ChP) (between 270 nm and 340 nm)	≤ 0.02		
Volatile impurities (GC) (Acetaldehyde and Acetal)	≤ 10	ppm	
Volatile impurities (GC) (Benzene)	≤ 2	ppm	
Volatile impurities (GC) (Methanol)	≤ 100	ppm	
Volatile impurities (GC) (Total of other impurities)	≤ 300	ppm	
Other residual solvents (ICH Q3C)	excluded by production process		
Evaporation residue	≤ 25	mg/l	
Non-volatile matter	≤ 25	mg/l	
Bacterial endotoxins	≤ 2.5	I.U./ml	
	Parameter with pe	eriodic testing	

Total aerobic microbial count (TAMC) ≤ 100 CFU/ml
Total combined yeasts/moulds count (TYMC) ≤ 10 CFU/ml

Elemental impurity specifications have been set considering ICH Q3D (Guideline for Elemental Impurities). Class 1-3 elements are not likely to be present above the ICH Q3D option 1 limit, unless specified and indicated (*).

Conforms to Ph Eur, BP, ChP.

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Jeannette David Responsible laboratory manager quality control

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