

CERTIFICATE OF ANALYSIS

Name: 2093-698 - Ethanol 96% (DRINK) 1L

Werkorder: 142280

Lot number: 20K25/V11413

Expiry date: 31/08/2023

Parameter	Measured Value	Specification Value Range	Analysis Method
Reference			
REFERENCE: Ph. Eur.			
Sampling			
Original Manufacturer: Cargill	conform	conform	
Supplier (Distributor): Brenntag Nederland BV	conform	conform	
Characters			
Description: Colourless, clear, volatile, flammable liquid, hygroscopic	conform	conform	
Solubility	conform	conform	Ph. Eur.
Boiling point: about 78°C	79 °C		Ph. Eur.
Burns with a blue smokeless flame.	conform	conform	Ph. Eur.
Identification			
A.: Relative density	positive	positive	Ph. Eur.
B.: Infrared absorption spectrophotometry	positive	positive	Ph. Eur.
C.: Colour reaction	not applicable	positive	Ph. Eur.
D.: Precipitation reaction	not applicable	positive	Ph. Eur.
First identification: A, B	positive	positive	
Second identification: A, C, D	not applicable	positive	
Tests			
Appearance	conform	conform	Ph. Eur.
Acidity or alkalinity	conform	conform	Ph. Eur.
Relative density (d ₂₀ -20)	0,808	0,805 - 0,812	Ph. Eur.
Absorbance	conform	conform	Ph. Eur.
Residue on evaporation	14 ppm m/V	< 25 ppm m/V	Ph. Eur.
Volatile impurities			
Methanol	< 200 ppm V/V	< 200 ppm V/V	Ph. Eur.
Acetal + acetaldehyde expressed as acetaldehyde	< 10 ppm V/V	< 10 ppm V/V	Ph. Eur.
Benzene	< 2 ppm V/V	< 2 ppm V/V	Ph. Eur.
Total of other impurities	< 300 ppm V/V	< 300 ppm V/V	Ph. Eur.

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Signed by: Filip Van Houtte

Qualified Person



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Assay			
Ethanol content	96,3 % V/V	95,1 - 96,9 % V/V	Ph. Eur.
Release			
Conclusion	conform	conform	
Date	09/12/2020		

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Signed by: Filip Van Houtte
Qualified Person

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