



Specification

1.04094.0000 Glycerol 85% for analysis EMSURE® Reag. Ph Eur

	Specification	
Assay (GC; calc. on hydrous substance)	84.5 - 85.5	%
Assay (alkalimetric after oxidation)	83.5 - 88.5	%
Identity	passes test	
Appearance of solution	passes test	
Acidity or alkalinity	passes test	
Free alkali (as NH ₃)	≤ 0.0005	%
Free acid (as CH ₃ COOH)	≤ 0.002	%
Refractive index (n 20/D)	1.449 - 1.455	
Density (d 20/4)	1.218 - 1.225	
Chloride (Cl)	≤ 0.0001	%
Sulphate (SO ₄)	≤ 0.0005	%
Heavy metals (as Pb)	≤ 0.0001	%
Halogen compounds (as Cl)	≤ 0.0030	%
Aldehydes	≤ 10	ppm
Fe (Iron)	≤ 0.0001	%
NH ₄ (Ammonium)	≤ 0.0005	%
Fatty Esters (as glycerintributyrate)	≤ 0.05	%
Esters	passes test	
Readily carbonizable substances	passes test	
Diethylene glycol and related Substances (impurity A)	≤ 0.1	%
Diethylene glycol and related Substances (any further impurity)	≤ 0.1	%
Diethylene glycol and related Substances (Sum of all impurities)	≤ 0.5	%
Sugar	passes test	
Sulfated ash	≤ 0.005	%
Water	14.5 - 15.5	%

Dr. Reiner Vogt
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.