

Certificate of Analysis (COA)

Product Information

Product Name	1,5-Pentanediol
Product Number	PD-20260309
Batch Number	PD-SH2026030901
Brand	TECHPURE
CAS Number	111-29-5
MDL Number	MFC000002984
Formula	C ₅ H ₁₂ O ₂
Formula Weight	104.15 g/mol
Quality Release Date	09 MAR 2026

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless	Colorless	-	Visual Inspection
Appearance (Form)	Clear viscous liquid	Clear viscous liquid	-	Visual Inspection
Purity (GC)	≥ 99.0%	99.3%	%	Gas Chromatography (GC)
Water Content	≤ 0.2%	0.09%	%	Karl Fischer Titration
Density (20°C)	0.990-0.992 g/cm ³	0.991 g/cm ³	g/cm ³	Density Meter
Boiling Range	238.0-242.0°C	239.2-241.5°C	°C	Distillation Test
Non-Volatile Residue	≤ 0.005%	0.002%	%	Gravimetric Method
Heavy Metals (Pb)	≤ 0.5 ppm	0.1 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 0.1 ppm	0.04 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
Acidity (as CH ₃ COOH)	≤ 0.001%	0.0004%	%	Titration Method

Certification

This batch of product has been tested in accordance with industrial standards for 1,5-pentanediol and meets all specified requirements. It is qualified for industrial and pharmaceutical use.

Issue Date: 09 MAR 2026