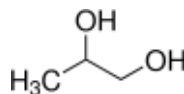


Product Name:
Propylene Glycol,

Certificate of Analysis

Product Number: W294004
Batch Number: MKCF7286
CAS Number: 57-55-6
MDL Number: MFCD00064272
Formula: C₃H₈O₂
Formula Weight: 76.09 g/mol



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Viscous Liquid	Viscous Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 ° C	1.431 - 1.433	1.433
Purity (GC)	≥ 99.50 %	99.79 %
Residue on ignition (Ash)	≤ 0.007 %	0.002 %
Specific Gravity	1.035 - 1.037	1.035
Boiling Point by DSC	185 - 189 °C	187 °C
Acidity	Pass	Pass
Water (by Karl Fischer)	≤ 0.2 %	< 0.1 %
Arsenic (As)	≤ 3 ppm	< 1 ppm
Cadmium (Cd)	≤ 1 ppm	< 1 ppm
Mercury (Hg)	≤ 1 ppm	< 1 ppm
Lead (Pb)	≤ 1 ppm	< 1 ppm