

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	PROPYLENE GLYCOL
2. Molecular Formula	C ₃ H ₈ O ₂
3. Molecular Weight	76.10
4. CAS No	57-55-6
5. Batch Number	As mentioned on Label
6. Date Of Exp	3 Years From MFG
7. Date of Analysis	June - 2024

Sr.	Tests	Specifications	Results
1	Appearance	Clear colourless liquid	Clear colourless liquid
2	Purity (by GC)	Min 99.5%	99.91%
3	Identity (IR)	Conforms	Conforms
4	Identity D (Ph Eur)	Melting point of crystals formed on reaction - 121 to 128°C	122°C
5	Appearance of the substance	Passes test	Passes test
6	Density (d ₂₀ ^{°C} /4°C)	1.035 - 1.040	1.035
7	Density (d ₂₅ ^{°C} /25°C)	1.035 - 1.037	1.035
8	Refractive index (20°C; 589 nm)	1.431 - 1.433	1.43280
9	Boiling Point	184 - 189 °C	185°C
10	Acidity	Passes test	Passes test
11	Chloride (Cl)	Max 0.007 %	0.0006%
12	Sulphate (SO ₄)	Max 0.006%	0.0011%
13	Heavy metal (as Pb)	Max 0.0005 %	0.000000%
14	Isomers of dipropylene glycol	Passes test	Passes test
15	Diethylene glycol (GC)	Max 0.1%	Not detected
16	Ethylene glycol (GC)	Max 0.1%	Not detected
17	Residual solvents (ICH Q3C)	Excluded by production process	Complies
18	Oxidizing substances	Passes test	Passes test
19	Reducing substance	Passes test	Passes test
20	Sulphated ash	Max 0.007 %	0.004%
21	Water (H ₂ O)	Max 0.2%	0.047%