Polychemicals

DEG

Description

1. **Diethylene Glycol (DEG):** A clear, hygroscopic, and moderately viscous liquid, DEG is a co-product of MEG production. It shares many properties with MEG but has a higher boiling point, viscosity, and specific gravity. These characteristics make it a valuable industrial solvent and a chemical intermediate for products such as unsaturated polyester resins, plasticizers, and polyurethanes. It also functions as a humectant (moisture-retaining agent) in various applications.

Application

- **Unsaturated Polyester & Alkyd Resins:** Intermediate in the production of resins for coatings and composites (MEG, DEG).
- **Plasticizers:** Used to increase the flexibility of vinyl polymers (DEG, TEG).
- **Humectants:** Moisture-retaining agent in products like cork, ink, and tobacco (DEG, TEG).
- **Solvents:** Used in inks, dyes, and other industrial formulations (DEG).

PROPERTIES	SPEC. VALUE	UNIT	TEST METHOD
PURITY	99.8 MIN	WT%	ASTM E 202
MONOETHYLENE GLYCOL	0.05 MAX	WT%	ASTM E 202
TRI ETHYLENE GLYCOL	0.05 MAX	WT%	ASTM E 202
WATER CONTENT	0.08 MAX	WT%	ASTM E 203
ACIDITY	0.005 MAX	WT%	ASTM D 1613
ASH	0.005 MAX	WT%	DC - 254/A
SP. GR. 20/20°C	1.1175-1.1195	-	ASTM D 891
COLOR	10 MAX	PT-CO	ASTM D 1209
DISTILLATION 760MM HG - IBP	242 MIN	°C	ASTM D 1078
DISTILLATION 760MM HG - DP	250 MAX	°C	ASTM D 1078