

Azin Group Diethylene Glycol (DEG)

Characteristic	Test Method	Unit	Value
PURITY	ASTM E - 202	WT.%	99.8 MIN
MONOETHYLENE GLYCOL	ASTM E - 202	WT.%	0.05 MAX.
TRIETHYLENE GLYCOL	ASTM E - 202	WT.%	0.05 MAX.
WATER CONTENT	ASTM E - 202	WT.%	0.05 MAX
ACIDITY AS ACETIC ACID	ASTM D - 1613	PPM	50 MAX
ASH CONTENT	ASTM D - 254/A	PPM	50 MAX
SP. GR. (20/20 °C)	ASTM D - 891	-	1.1175-1.1195
COLOR	ASTM D - 1209	Pt - Co	10 MAX
DISTILLATION @ 760 MM-Hg			
IBP	ASTM D - 1078	°C	242 MIN
DP	ASTM D - 1078	°C	250 MAX

DIETHYLENEGLYCOL obtained from the reaction of ethylene oxide and MEG. It is a clear, transparent and odorless liquid that can be mixed with water in any proportion.

○ Application areas:

• Resins :

DIETHYLENEGLYCOL is used as synthesizing agent for alkyd resins as well as saturated and unsaturated polyester.

DIETHYLENEGLYCOL is used in the synthesis of polyurethane resins, as a coalescence agent, anti-freezing agent in polymer and/or acrylic homopolymer emulsions, chain extender and agent in the dispersion and wetting of unsaturated polyester resins.

• Synthesizing agents :

DIETHYLENEGLYCOL can be used as synthesis intermediate.

DIETHYLENEGLYCOL esters are used as emulsifiers.

DIETHYLENEGLYCOL esters with fatty acids (oleic, stearic, lauric, etc.) are used as emulsifiers and plasticizers of polymers.