	<u>Physical Properties</u>	Date	2019.07.19
		Lotte Chemical Corporation 14F-16F, Lotte World Tower, 300 Olympic-ro, Songpa-gu, Seoul (05551), KOREA TEL) 82-2-829-4114	

## DEG (YEOSU PLANT)

### General Information

### Di Ethylene Glycol

#### Description

- Low viscosity, Low freezing-point

#### Applications

- ◆ Intermediate material and plasticizer for polyester resin and polyurethane, raw material for the emulsifier


### Physical Properties<sup>1</sup>

Test Item	Specifications	Testing Method
APPEARANCE	B&C	VISUAL
SPECIFIC GRAVITY (20/20℃)	1.117 ~ 1.120	ASTM D-4052
MONOETHYLENE GLYCOL	Max. 0.08 wt.%	ASTM E-202
TRIETHYLENE GLYCOL	Max. 0.08 wt.%	ASTM E-202
WATER	Max. 0.2 wt.%	ASTM E-203
COLOR (Pt-Co scale)	Max. 15	ASTM D-1209
ACIDITY (as ACETIC ACID)	Max. 0.01 wt.%	ASTM E-202
ASH	Max. 0.005 wt.%	ASTM D-482
IRON	Max. 0.5 wt.ppm	ASTM E-202
DISTILLATION 5%	Min. 240 °C	ASTM E-202
DISTILLATION 95%	Max. 250 °C	ASTM E-202

### NOTE

ISO 9001, 14001

<sup>1</sup> Physical Properties : these are not to be construed as specifications

	<u>Physical Properties</u>	Date	2019.07.19
		Lotte Chemical Corporation 14F-16F, Lotte World Tower, 300 Olympic-ro, Songpa-gu, Seoul (05551), KOREA TEL) 82-2-829-4114	

## DEG (DAESAN PLANT)

### General Information

### Di Ethylene Glycol

#### Description

- Low viscosity, Low freezing-point

#### Applications

- ◆ Intermediate material and plasticizer for polyester resin and polyurethane, raw material for the emulsifier

### Physical Properties<sup>1</sup>

Test Item	Specifications	Testing Method
SPECIFIC GRAVITY (20/20℃)	1.117 ~ 1.120	ASTM D-891
MONOETHYLENE GLYCOL	Max. 0.08 wt.%	ASTM E-202
TRIETHYLENE GLYCOL	Max. 0.08 wt.%	ASTM E-202
WATER	Max. 0.2 wt.%	ASTM E-203
COLOR (APHA)	Max. 15	ASTM D-1209
ACIDITY (as ACETIC ACID)	Max. 0.1 wt.%	ASTM D-1613
ASH	Max. 0.005 wt.%	SD No. DC-254A
DISTILLATION 5%	Min. 240 ℃	ASTM E-202
DISTILLATION 95%	Max. 250 ℃	ASTM E-202

### NOTE

ISO 9001, 14001

<sup>1</sup> Physical Properties : these are not to be construed as specifications