Diethylene glycol (KEDEG)

KIMYAGARAN
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Technical Data Sheet

Diethylene Glycol (KEDEG)

Chemical Name:

Diethylene Glycol

Trade Name:

KEDEG

Introduction:

Diethylene glycol (DEG) is an odorless, colorless, clear and viscose liquid with a sweet taste, which is produced from the reaction between water and ethylene oxide. In fact, it is the co-product of ethylene glycol alongside with triethylene glycol (TEG). It is miscible with water, alcohols, acetone, ether and has the chemical formula of $C_4H_{10}O_3$.

In terms of chemicals properties, diethylene glycol is similar to MEG (mono ethylene glycol), but it has a higher specific gravity, viscosity and boiling point.

General Applications:

Diethylene glycol is used in the manufacture of unsaturated polyester resins, plasticizers and polyurethanes. It is also used as textile lubricant, solvent in textile dyeing and printing, humectant, selective solvent for aromatics in petroleum refining, plasticizer for paper, cork and synthetic sponges, raw material for the production of esters used as emulsifiers and demulsifiers, constituent of hydraulic fluids and solvent in printing inks.

Safety, Handling & Storage:

Full information on the safety, handling and storage of KEDEG is available in the corresponding Material Safety Data Sheet (MSDS).

Diethylene Glycol

Trade Name: **KEDEG**

Specification

No.	Test	Test Method	Standard
1	Appearance	Visual	Clear Liquid
2	Specific gravity @20°C	ASTM D891	1.1175-1.1195
3	Color [Pt-Co]	ASTM D1209	Max. 15
4	Acidity as acetic acid (ppm)	ASTM D1613	Max. 50
6	Assay (wt. %)	ASTM E202	Min. 99.5
7	MEG (wt. %)	ASTM E202	Max. 0.2
8	TEG (wt. %)	ASTM E202	Max. 0.5
9	Ash (wt. %	ASTM E347	Max. 0.0045
10	Distillation range (°C)	ASTM D1078	242-247
11	Water (wt. %)	ASTM E203	Max. 0.2

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