

Oleic Acid Ethoxylate (KEOL)



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Technical Data Sheet



Oleic Acid Ethoxylates (KEOL)

Chemical Name:

Oleic Acid Polyethylene Glycol Ester

Trade Name:

KEOL

Introduction:

Oleic acid Ethoxylates are nonionic surfactants which are such as all kinds of other nonionic surfactants mixtures varying in the number of repeating ethoxy groups. The digit which is appeared after the name of KEOL shows the average number of ethylene oxide units in the Oleic acid ethoxylates molecules. For example, KEOL-15 means an oleic acid molecule which is reacted with average fifteen moles of ethylene oxide. Due to the reaction of Fatty Acid ethoxylation, all kinds of fatty acid ethoxylates are mixtures of monoester, diester and free polyethylene glycols.

Different Grades:

KEOL 6, KEOL 9, KEOL 15

General Applications:

Oleic acid Ethoxylates are used in a wide variety of applications; they have been developed for use as agricultural nonionic surfactants which are used as HLB variable in emulsifiable and suspension concentrates and other pesticide formulations. They are also used as textile auxiliary or as emulsifier or lubricity additives in metal working industry.

Packaging:

Packaging Type	Net weight	Gross weight	No. of drums per pallet	No. of pallets in a 20 FLC	Shelf life	IMCO Class
New Steel Drums	220 Kgs	238 Kgs	4	20	2 yrs	Non-Imco



Notice:

We can produce other types of Oleic Acid Ethoxylates (KEOLs), moreover customized packaging will be available according to customer's request.

Safety, Handling & Storage:

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



Ethoxylated Oleic Acid -6EO

Trade Name: **KEOL 6**

Specification

No.	TEST	STANDARD	Unit	Ref.
1	Appearance @ 25°C	Clear liquid	-	---
2	Viscosity @ 25°C	ca. 58	cp	ASTM D445-03
3	Density @ 25°C	0.98±0.02	gr/cm ³	---
4	pH (5% in water)	5-7	-	ASTM E70
5	HLB	9.9	-	---
6	Cloud point (10% in 25%BDG)	59-63	°C	ASTM D2024
7	Hydroxyl Value	100 - 108	mg KOH/g	USP37-NF32
8	Saponification value	95-105	mg KOH/g	USP37-NF32
9	Water	Max. 0.5	%Wt	ASTM E203



Ethoxylated Oleic Acid -9EO

Trade Name: **KEOL 9**

Specification

No.	TEST	STANDARD	Unit	Ref
1	Appearance @ 25°C	Clear liquid	---	---
2	Viscosity @ 25°C	ca. 95	cP	ASTM D445-03
3	Density @ 25°C	1.01±0.02	g/cm ³	ASTM D445-03
4	pH (5% in water)	5-7	---	ASTM E70
5	HLB	11.6	---	---
6	Cloud point (10% in 25%BDG)	66-71	°C	ASTM D2024
7	Hydroxyl Value	80 - 88	mgKOH/g	USP40-NF35
8	Saponification value	73-83	mgKOH/g	USP40-NF35
9	Water	Max. 0.5	Wt %	ASTM E203

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