



Lauryl Alcohol Ethoxylate (LAE)

Characteristic	Test Method	Unit	LAE-2EO	LAE-3EO	LAE-5EO	LAE-7EO	LAE-9EO
CLOUD POINT	BALLESTRA B-B5	°C	50- 52	60- 62	71-73	52-56	79-81
PH	ASTM D -1172	-	5- 7	5- 7	5- 7	5- 7	5- 7
HYDROXYL NO.	ASTM D -4252	mg KOH/gr	193-199	168-174	131-137	104-115	93-98
DENSITY@25°C	ASTM D -1298	Kg/lit	0.87-0.89	0.90-0.92	0.93-0.95	0.98-1.00	0.98-1.00
M.W	CALCULATED	Kg/Kmol	282-291	322-334	410-428	492-510	572-603
HLB	CALCULATED	-	5.9-6.2	7.9-8.2	10.3-10.7	12.1-12.5	13.1-13.8

Address:
1473 SK NO:5
Muzaffer Tuzcuoğlu
Business Center
Alsancak
İZMİR, TURKEY

Tel:
+90 544 317 84 64

Tel:
+90 553 546 50 56

Web-site:
www.aypetkim.com.tr

E-mail:
info@aypetkim.com.tr

CAS Name: poly (oxy-1, 2-ethanedil), a-dodecyl- ω -hydroxy

The higher EO adducts are available on request.

CTFA/INCI Name: laureth-2, laureth-3,....

Lauryl alcohol ethoxylates are non-ionic surfactants obtained by adding ethylene oxide (EO) to linear fatty alcohols having alkyl carbon atoms ranging more between 12 and 14.

The Lauryl alcohols ethoxylates designated by the name "LAE"

Followed by a number indicating the average number of ethylene oxide molecules added.

LAE2, LAE3, LAE5, LAE7, are viscose liquid at room temperature and LAE9 is a waxes waxy solid.

Properties:

- The LAE products are ethoxylated of straight-chain oleo chemical Alcohols.
- Overall they exhibit good wetting, dispersion and emulsifying Properties.

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Applications:

- In Detergents: The LAE grade's can be used in liquid & solid detergents, Manual dish wash, household cleaner, industrial cleaner & hand cleaners, as basic surfactant.
- The LAE2 & LAE3 are good for sulphonation.
- In Textile as scouring, lubricating, dyeing & finishing
- In Agricultural as emulsifier,
- In Paper as rewetting agent & absorbency,
- In Rubber as excellent stabilizer,
- In Leather as degreasing, tanning, Fat- liquoring & surfactant,
- In Paint as wetting agent & emulsifiers.
- In Cosmetics as raw material for shampoos, skin cleaners, normal flora, skin Compatibility.

Storage Condition:

- LAE grades are generally not regarded difficulties in handling & Storage, they are inert, low order of toxicity, on volatile, stable, high flash Point & aren't corrosive.

- Due to the hygroscopic nature of LAE grades, for the bulk liquid prolonged storage, stainless 304/316 tank that should be done under a nitrogen blanketing is recommended.

Packaging:

- Bulk or in 220 Lit (net.200 kg) new drums, each 4 drums strapped on a pallet.
- Shelf life: 24 months

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+90 553 546 50 56

Web-site:
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E-mail:
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