



Arak Petrochemical Company



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

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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

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

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.

The higher EO adducts are available on request.

o 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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Lauryl Alcohol Ethoxylate (LAE)

○ 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.

– 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

○ 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.