



## Technical Data Sheet

## ICC-Ethoxylated Products

**Trade Name:** LAE7

**Chemical Name:** LAURYL ALCOHOL ETHOXYLATE 7

**Grade:** Chemical

**CAS Name:** poly (oxy-1, 2-ethanedil),  $\alpha$ -dodecyl- $\omega$ -hydroxy

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.

### Application

LAE7 as a result of its detergent and surface tension reduction power, uses in formulation of liquid and powdered laundry detergents, multiple purpose detergents, shampoo for vehicles, automotive and textile degreasers, conferring an excellent foam stabilizing effect even in the presence of hard water.

### Storage and Handling

LAE7 should be stored in a dry covered area at a fair distance from sources of heat or ignition. Locations in which chemical products are handled must be ventilated and equipped with emergency showers besides eye washing showers.

For bulk storage, we recommend the use of stainless-steel tank or carbon steel tanks coated with vinyl ester resin, equipped with a heating coil, installed at the bottom of the tank, and a recirculation system to guarantee the homogeneity of the product.

**Shelf life:** 24 months from the date of manufacture.

TEST	STANDARD TEST METHOD	RESULT
Appearance at 25°C	—	Cloudy liquid
Color at 50°C, APHA	ASTM D-1209	Max. 10
Average molecular weight, g/mol	Calculated	505 ± 5
pH (10%wt at isopropanol 50%v aq.)	ASTM D-1172	5-7
Cloud point, °C (1% in Water)	ASTM D-2024	56 - 64
Density at 25°C, g/ml	ASTM D-1298	0.98±0.02
Hydroxyl value, mg KOH/g	ASTM D-4252	107-115
HLB, calculated	Calculated	12.2-12.4
Water, percent	ASTM E-203	Max. 0.1
Polyethylene glycol, percent	ASTM D-4252	Max. 2.0
Viscosity at 25°C, cP	ASTM D-445	51±5

### Safety

Pure products can cause skin irritation; LAE7 products are only slightly toxic, and therefore safe for use in domestic cleaning products. When handling pure chemical products, we recommend the use of individual protection equipment.

In the event of accidental contact, proceed as follows:

**Eyes:** wash immediately with plenty of water for at least 15 minutes.

**Skin:** wash the area affected with plenty of water and remove contaminated clothing.

**Ingestion:** seek medical care urgently.