



## Kao Corporation, S.A

Member of Kao Chemicals Europe

Puig dels Tudons, 10 -E-08210 Barberà del Vallès

Phone : +34 93 739 93 00

E-mail : [marketing@kao.es](mailto:marketing@kao.es)

Fax : +34 93 739 93 77

Web : [www.kaochemicals-eu.com](http://www.kaochemicals-eu.com)



**APROVADO**

Dep. Qualidade

## EMAL<sup>®</sup> 30E

- Primary anionic surfactant
- Vegetable origin
- Foaming and detergent

### CHEMICAL IDENTIFICATION

R - OSO<sub>3</sub>Na

R= C<sub>12-14</sub>natural

INCI Name : Sodium Lauryl Sulfate

CAS Number : 85586 – 07 – 8

### TECHNICAL SPECIFICATIONS

		Kao Method
APPEARANCE (20°C) :	Yellowish Opaque Liquid	KCSA-258
ODOUR :	Characteristic	KCSA-267
ACTIVE MATTER (% , Ew = 302) :	29 – 31	KCSA-130
UNSULPHATED MATTER (%) :	2.0 max.	KCSA-086
pH (solution in water 10%) :	7.0 – 8.5	KCSA-014
SODIUM SULPHATE (%) :	1.0 max.	KCSA-094
MICROBIOLOGICAL CONTROL (cfu / mL) :	10 max.	KCSA-234



## EMAL® 30E

### TYPICAL PROPERTIES

DENSITY (20°C, g/mL, "spot") :	1.039 approx.
VISCOSITY (20°C cPs) :	200 max.
WATER SOLUBILITY (20°C) :	Soluble
MELTING POINT (°C) :	15°C approx.
PRESERVATIVE :	CIT/MIT
CHARACTER :	Anionic

### APPLICATION PROPERTIES

- EMAL® 30E is one of the most common anionic surfactant in household and personal care formulae.
- EMAL® 30E is an anionic surfactant with a very good foaming power (dense foam), even at very diluted concentration, and with excellent detergency properties, especially on particulate-type soils.
- EMAL® 30E presents liquid form at temperature above 20°C, but becomes thick and hazy at lower temperature.
- EMAL® 30E can be used in liquid detergents: foaming general-purposes wetting agents, dishwashing formulations, often incorporate in powder detergents (combined with LAS) and also in personal care products as main surfactant or combined with SLES.
- Solubility and performance of EMAL® 30E are affected by water hardness ions, ionic strength and temperature. Keep in mind that sulphates are more susceptible to thermal and hydrolytic degradation problems, in comparison to sulphonates.
- EMAL® 30E solutions can be thickened with sodium chloride.
- EMAL® 30E can be mixed with other anionic, non-ionic or amphoteric surfactants.
- Due to its anionic character it should not be mixed with cationic components (surfactants, dyes, ...) in the same formula. A kind of incompatibilities could appear (separation, precipitate, viscosity changes, etc.)



## EMAL<sup>®</sup> 30E

### STORAGE – HANDLING – SHELF LIFE

- EMAL<sup>®</sup> 30E is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container).
- In the case of long storage time, it is advisable to homogenise the product before its use, especially if it has been submitted to low temperatures. Small changes in the appearance can be easily recovered by applying a moderate agitation at 35°C approximately. A general advise is to use the complete container every time.
- The shelf life of EMAL<sup>®</sup> 30E can be considered of 1 year minimum under proper storage conditions. After longer storage time some of its characterising parameters ( odour, appearance, colour ,pH,...), should be checked before using it.

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