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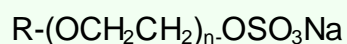
APROVADO

Dep. Qualidade

EMAL[®] 227E

- Primary anionic surfactant
- Vegetable origin
- Foaming detergent

CHEMICAL IDENTIFICATION



R= C₁₂₁₄natural
n = 2

INCI Name : Sodium Laureth Sulfate

CAS Number : 68891-38-3

TECHNICAL SPECIFICATION

		Kao Method
APPEARANCE (20°C) :	Transparent Liquid	KCSA-258
ODOUR:	Characteristic	KCSA-267
ACTIVE MATTER (% , EW = 382) :	26 – 27	KCSA-130
UNSULPHATED MATTER (%) :	1.4 max.	KCSA-082
SODIUM SULPHATE (%) :	0.5 max.	KCSA-094
pH (5% solution in water)	6.5 – 7.5	KCSA-014
COLOR (Klett, 10% a.m.) :	50 max.	KCSA-088
MICROBIOLOGICAL CONTROL (cfu / mL) :	10 max.	KCSA-234

EMAL[®] 227E

TYPICAL PROPERTIES

DENSITY (20°C, g/mL, "spot") :	1.040
VISCOSITY (20°C cPs) :	< 50
SOLUBILITY IN WATER :	Soluble
MELTING POINT (°C) :	-5 / 0
1,4 -DIOXANE (at 100% am, ppm) :	100 max.
CHARACTER :	Anionic

APPLICATION PROPERTIES

- EMAL[®] 227E is a high foaming power anionic surfactant, even at very low concentration. Its foaming properties are not affected by hardness or temperature changes.
- EMAL[®] 227E is completely compatible with other anionic, non-ionic and amphoteric surfactants, and therefore can be easily mixed with them. A wide range of formulations for several application fields, in which EMAL[®] 227E is the main foaming and detergent raw material, can be obtained.
- EMAL[®] 227E has an excellent soil dispersing effect, performing as a very good detergent.
- The viscosity of the EMAL[®] 227E solutions can be easily thickened using electrolytes (NaCl, NH₄Cl, Na₂SO₄...). Sodium chloride is the most effective. The addition of other non-ionic surfactants, as for instance amides, allows also to increase viscosity using less NaCl percentage.
- Due to its anionic character, EMAL[®] 227E shouldn't be mixed with cationic components (surfactants, dyes,...) in the same formula. Some incompatibilities could appear (haziness, precipitate, viscosity problems,...etc.)

STORAGE AND HANDLING

- EMAL[®] 227E 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 25-30°C. A general advise is to use the complete container every time.
- The shelf life of EMAL[®] 227E 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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