



# Kao Corporation, S.A.

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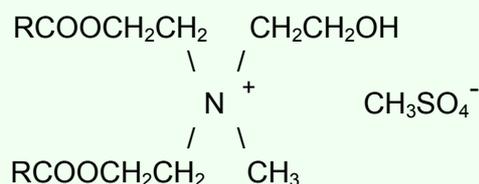
**APROVADO**

Dep. Qualidade

## TETRANYL® L1/90S

- Cationic surfactant for domestic softener
- Ecological and biodegradable product
- Anti-static and softener effect
- Recommended for softener with “high” concentration (>15% a.m.)

### CHEMICAL IDENTIFICATION



RCOO<sup>-</sup> : partially hydrogenated tallow

Inci Name: Dihydrogenated Tallowylethyl Hydroxyethylmonium Methosulfate  
 &  
 Ditallowylethyl Hydroxyethylmonium Methosulfate

CAS Number: 91995 – 81 – 2

### TECHNICAL SPECIFICATIONS

|                                |                | <b>Kao Method</b> |
|--------------------------------|----------------|-------------------|
| ODOUR:                         | Characteristic | KCSA-272          |
| COLOUR (Gardner) :             | 3 max.         | KCSA-222          |
| pH (5% in water) :             | 2.0 – 3.0      | KCSA-127          |
| ACTIVE MATTER (meq/g) :        | 1.07 – 1.13    | KCSA-178          |
| VOLATILE MATTER (%) :          | 9 – 11         | KCSA-283          |
| ACID VALUE (mg KOH/g) :        | 12.0 max.      | KCSA-125          |
| TOTAL AMINE VALUE (mg KOH/g) : | 5.5 max.       | KCSA-129          |

## TETRANYL® L1/90S

### TYPICAL PROPERTIES

|                                 |                   |
|---------------------------------|-------------------|
| APPEARANCE (20°C) :             | Solid paste       |
| APROXIMATED CONCENTRATION (%) : | 90 approx.        |
| ASH (%) :                       | < 0.1             |
| MELTING POINT (°C) :            | 33 approx.        |
| VOLATIL SOLVENT (%) :           | Isopropyl alcohol |
| FLASH POINT (°C) :              | 25 - 35           |
| CHARACTER :                     | Cationic          |

### APPLICATION PROPERTIES

- TETRANYL® L1/90S is a cationic surfactant of the new generation of esterquats. These products have better biodegradability, lower toxicity and lower irritation than typical quaternary ammonium compounds.
- Due to its viscosity performance in the formula, it's advisable especially for concentrated softeners (> 15% active matter), which request a low viscosity. It can also be used in regular softeners.
- Main functions of TETRANYL® L1/90S are anti-static and conditioning effects.

### STORAGE – HANDLING – SHELF LIFE

- TETRANYL® L1/90S is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container).
- It is advisable to homogenize the product at 50°C before its use. A general advice is to use the complete container every time.
- The shelf life of TETRANYL® L1/90S 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.
- For safety reasons, TETRANYL® L1/90S must be stored in areas with good ventilation and conditioned for flammable products.
- For long storage periods it is advised to avoid temperature above 40°C.

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