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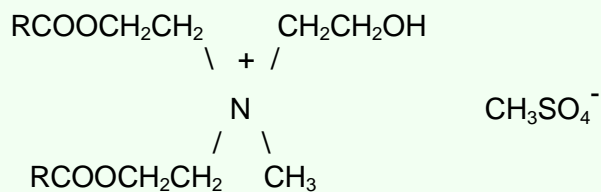
**APROVADO**

Dep. Qualidade

## TETRANYL® AT-1

- Cationic surfactant for domestic fabric softeners
- Ecological and biodegradable product
- Anti-static, rewetting and softening effect
- Non-yellowing product
- Dispersible product at low temperature
- Low melting point surfactant, almost liquid at 25°C

### CHEMICAL IDENTIFICATION



RCOO<sup>-</sup> : tallow

INCI Name : Ditallowoylethyl Hydroxyethylmonium Methosulfate

CAS Number : 93334 – 15 – 7

### TECHNICAL SPECIFICATIONS

		Kao Method
COLOUR (Gardner) :	3 max.	KCSA-222
pH (5% in water) :	2.0 - 3.0	KCSA-127
ACID VALUE (mg KOH/g) :	12.5 max.	KCSA-125
TOTAL AMINE VALUE (mg KOH/g) :	5.5 max.	KCSA-129
ACTIVE MATTER (meq/g) :	0.88 min.	KCSA-178
VOLATILE MATTER (%) :	14 - 16	KCSA-283



## TETRANYL® AT-1

### TYPICAL PROPERTIES

APPEARANCE (25°C) :	Viscous paste
ASH (%) :	< 0.1
ACTIVE CONCENTRATION (%) :	85 approx.
MELTING POINT (°C) :	25°C approx.
SOLVENT TYPE (%) :	Isopropyl alcohol
CHARACTER :	Cationic

### APPLICATION PROPERTIES

- TETRANYL® AT-1 is a cationic surfactant of the ester quats generation. These products have better biodegradability, lower toxicity and lower irritation than typical quaternary ammonium compounds.
- TETRANYL® AT-1 performs as antistatic and softening agent.
- TETRANYL® AT-1 is mainly recommended for regular softeners, that means with 5-6% active matter concentration.
- TETRANYL® AT-1 is a soft paste quite easily handled at room temperature.

### STORAGE – HANDLING – SHELF LIFE

- TETRANYL® AT-1 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 homogenize 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 35-40°C. A general advice is to use the complete container every time.
- The shelf life of TETRANYL® AT-1 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® AT-1 must be stored in areas with good ventilation and conditioned for flammable products.
- For long storage time it is recommended to avoid temperature above 40°C.

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