



Kao Corporation, S.A.

Member of Kao Chemicals Europe

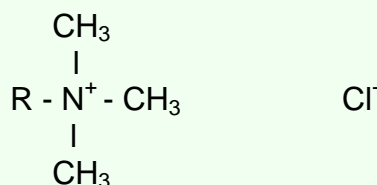
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QUARTAMIN® 60W25

- Conditioning agent
- Anti-static effect
- Hair care application
- Vegetable origin

Cationic surfactant mainly used as conditioning agent in hair rinse preparations

CHEMICAL IDENTIFICATION



R = C16

INCI Name : Cetrimonium Chloride

CAS Number : 112-02-7

TECHNICAL SPECIFICATIONS

		Kao Method
APPEARANCE (20°C) :	Colourless transparent liquid	KCSA-258
APPEARANCE (10°C) :	Hazy and slightly viscous liquid	KCSA-258
APPEARANCE (-5°C) :	Solid	KCSA-258
ODOUR :	Characteristic	KCSA-267
COLOUR (Apha) :	50 max.	KCSA-207
pH (25% in water) :	5.0 – 6.5	KCSA-014
ACTIVE MATTER (Ew.: 321.5) :	24.0 – 26.0	KCSA-003
VOLATIL MATTER (%) :	74.0 – 76.0	KCSA-283

QUARTAMIN® 60W25

TYPICAL PROPERTIES

DENSITY (20°C, g/ mL) :	0.975 approx.
SOLUBILITY IN WATER :	Soluble
MELTING POINT (°C) :	0 approx.
SOLVENT (%) :	Water, 75% approx.
CHARACTER :	Cationic

APPLICATION PROPERTIES

- QUARTAMIN® 60W25 performs as anti-static, softener and conditioner in hair formulations.
- Due to its liquid appearance and easy handle it is one of the most used surfactants in the preparation of hair creams.
- Its % of use is generally between 2% and 10% of commercial product, being normally combined with cetyl or cetearyl alcohol.
- Due to its water and alcohol solubility it can also be used to obtain transparent products like hair lotions and lacquers.
- QUARTAMIN® 60W25 is compatible with cationic, non-ionic and amphoteric surfactants, and therefore it can be mixed with them in different compositions. Due to its cationic character it is not compatible with soaps and anionic surfactants.
- Besides the use in cosmetics, QUARTAMIN® 60W25 can be also applied in other specific detergent products, like acid cleaners with anti-scale effect.

STORAGE – HANDLING – SHELF LIFE

- QUARTAMIN® 60W25 is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container). No special care is needed.
- QUARTAMIN® 60W25 is a totally transparent liquid product at 20°C, but it can become hazy and viscous at lower temperatures. Below 0°C it can become even solid.
- 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 30-40°C. A general advice is to use the complete container every time.
- The shelf life of QUARTAMIN® 60W25 can be considered of 2 years minimum under proper storage conditions. After longer storage time some of its characterising parameters (*odour, appearance, pH, colour,...*) should be checked before using it.

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