

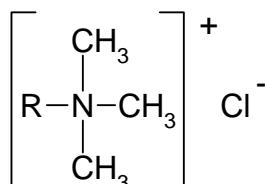
®Genamin STAC

Cationic surfactant for the cosmetic industry

Chemical name

Stearyl trimethyl ammonium chloride

General formula



R = predominantly C₁₈

INCI designation

Steartrimonium Chloride

Product properties ^{*)}

Appearance (20 °C)

Pale white pellets

Odour

Of isopropanol

Chemical and physical data

Active substance 80.0 ± 2.0 %

Mean molecular weight	354 g•mol ⁻¹
pH-value (1% active substance in water)	5.0 - 7.0
Water	2.0 % max
Ash	0.5 % max
Free amine + amine hydrochloride	2.5 % max
Isopropanol	approx. 20 %

Uses

Genamin STAC is used mainly in creme rinses and hair conditioners. The concentration required is 0.5% - 2.0%, relative to the active substance. The concentration required depends on the hair. The more damaged the hair is the more Genamin STAC will be used to achieve best effect.

Other possible applications are in the manufacture of antistatic fixatives for permanent waving, hair lotions, shampoos and styling creams.

Applications

As a cationic surfactant, Genamin STAC is adsorbed onto negatively charged surfaces without leaving a visible film, for example on the hair. Because of this and its associated properties, Genamin STAC is especially suitable as an active ingredient for hair cosmetics. Genamin STAC offers a good softening and a good antistatic effect for normal hair.

^{*)} These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety and ecological data, please refer to the MSDS.

Application properties

Hair damaged by bleaching, permanent waving or excessive degreasing tends to mat. Genamin STAC, used in cream aftertreatment preparations, considerably improves the wet combing properties and the condition of the hair.

Genamin STAC is absorbed onto the hair from aqueous and alcoholic solutions as well as from emulsions (dispersions) also in combination with other additives, such as film-forming agents and fatty components, and, because of the reduction in surface resistance, prevents the hair flying after combing.

Compatibility

Genamin STAC can be used in combination with other cationic surfactants to allow special effects with regard to wet and dry combing properties and the feel of the shampooed hair.

Genamin STAC is compatible with nonionic and amphoteric surfactants. It reacts with anionic surfactants by forming electroneutral salts; most of these are only sparingly soluble in water but stable solutions can be obtained by using an excess of an anionic compound.

No signs of incompatibility were observed with mixtures consisting of Genamin STAC and commercial film-forming agents such as polyvinyl pyrrolidone, PVA and PVP/VA.

pH stability

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described on their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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