

TECHNICAL DATA SHEET

QT-Green

INCI Betaine, Polyglyceryl-4-Caprate, Aqua, Glyceryl Acetate, Arginine

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SPECIFICATIONS

Appearance	Clear viscous liquid
Color	Colorless or pale yellow

GENERAL INFORMATION

Cationic conditioners deposit positively charged conditioning agents onto the negatively charged hair shaft, resulting in increased softness and manageability. While these are commonly synthetic compounds, the cosmetic market is increasingly seeking natural alternatives. Depending on their application, the measurable effects of QT-Green range from antistatic properties to effective conditioning, enhancing moisture levels in both hair and scalp.

FORMULATION AND RECOMMENDATIONS

The use of QT-Green in rinse-off formulations has no negative effect on foam; on the contrary, it supports luxurious, more compact and longer lasting bubbles.

It has been demonstrated that QT-Green increases the viscosity of formulations, performing comparably to or even surpassing benchmark ingredients such as Behentrimonium and Cetrimonium chloride.

Additionally, QT-Green enhances the quality and stability of foam. It shows similar effectiveness to Behentrimonium chloride on both dry and wet hair.

Its beneficial impact on foam facilitates easier application on wet hair, particularly in hair mask formulations



Following a water retention test, we demonstrate that QT-Green also significantly improves the organization of hair cuticles.

Recommended concentration

- 0.1%-0.5 % as anti-static agent
- 2.0%-5.0 % in shampoo
- 3.0%-10.0 % in hair mask

Solubility:

QT-Green is completely soluble in ethanol, as well as in various polyols such as propanediol and butylene glycol, and in water.

BENEFITS

- Cold processable
- Easy to incorporate (water soluble)
- Suitable for transparent formulations
- Avoids the unpleasant typical scent of conditioning agents
- Increases viscosity
- Improves foam stability & quality
- Botanical and upcycled sources

APPLICATIONS

Hair Care

- Shampoo
- Hair Mask
- Hair Serum
- Rinse-off Conditioner
- Leave-on Spray

SHELF LIFE

36 months under proper storage conditions

REGULATORY

ECOCERT / COSMOS	Approved
Natural Origin Index (according to ISO 16128)	1.00
Readily biodegradable	