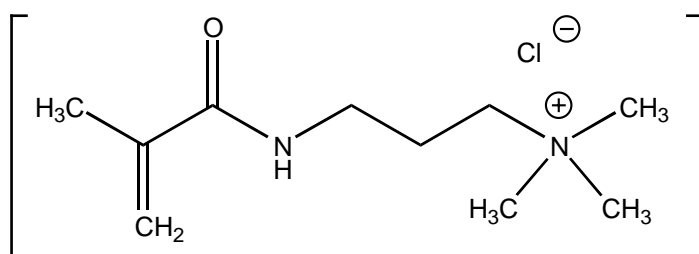


Maquat[®] PQ-125



Poly (methacrylamidopropyltrimethylammonium) Chloride

Overview

MAQUAT PQ-125 is a 25% active Poly-methacrylamidopropyl trimethyl ammonium chloride in water. MAQUAT PQ-125 is a highly substantive, film forming Poly Quaternary that provides effective conditioning and body without build-up. Use in Conditioners and Relaxers, Conditioning Volumizing Shampoos, Skin Lotions, and Styling Gels, Mousses and Sprays.

MAQUAT PQ-125 is a unique high molecular weight cationic homopolymer that provides effective conditioning and flexible hold at low use concentrations, imparting non-greasy detangling, improves dry comb and fly away, while building volume and sheen, especially with colored, permed, sun dried and damaged hair. With a greater cationic charge density than found in traditional Hair/Skin Care Quaternaries, PQ-125 is also effective as a cationic emulsifier, and as an anti-static and softening agent in crèmes, lotions and other personal care products.

Maquat PQ-125 is non-flammable, non-VOC and TSCA, CDSL, EINECS, AICS listed.

INCI Name: Polymethacrylamidopropyl Trimonium Chloride

CAS#: 68039-13-4

Typical Properties

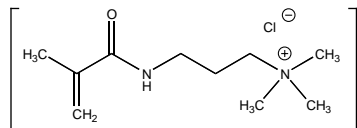
Water solubility	Soluble
Physical form	Clear Amber Liquid
Color (Gardner)	6 Maximum
% Non-volatile (1.5hr. @ 105°C).....	24-28
Viscosity @25°C (LV#3@30rpm)	1500-3000cps
Specific gravity @25°C	1.05±0.04
pH (5% aq.)	5.5-7.5
Flash point.....	>100°C/212°F (PMCC)

Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

Maquat is a trademark of Mason Chemical Company.

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In **Conditioning Shampoo formulations**, Maquat PQ-125 imparts superior conditioning properties for differentiated products, contributing excellent wet and dry comb performance, as an alternative to heavy polymeric conditioning agents that can result in build-up, as illustrated below:

2 in 1 Shampoo + Conditioner

Ingredients:	Wt. %
Water.....	to 100.0
Ammonium laureth-2 sulfate (28%)	10.0
Ammonium lauryl sulfate.....	2.5
Glycol Distearate.....	2.0
Maquat PQ-125 ⁽¹⁾	1.0
Masamide R-4 ⁽²⁾	1.0
Maquat SL-5 ⁽³⁾	0.5
Citric acid	to pH 6-6.5
Sodium Chloride.....	q.s.
Fragrance/Extracts/Oils/Preservative	q.s.

Procedure:

- Charge materials into water with agitation in order listed.
- Adjust pH to 6-6.5.
- Add Fragrance, Extracts/Oils such as Aloe Vera, Panthenol and Jojoba, and Preservative.
- Adjust viscosity with sodium chloride.

MAQUAT PQ-125 imparts soft, flexible hold in **Styling Gels, Mousses and Sprays**. Combine with mild foaming surfactants and penetrating conditioning agents for a product that protects hair from the damaging effects of blow drying and styling treatments, as illustrated below:

Flexible Hold Styling Mousse

Ingredients:	Wt. %
Water.....	to 100.0
Maquat PQ-125 ⁽¹⁾	2.0
Macat Ultra CG ⁽⁴⁾	1.5
Maquat CETAC-30 ⁽⁵⁾	1.5
Citric acid	to pH 6-6.5
Fragrance.....	q.s.
Preservative	q.s.

Procedure:

- Charge materials into water with agitation in order listed.
- Adjust pH to 6-6.5.
- Add Fragrance, Extracts/Oils such as Aloe Vera, Chamomile and Jojoba, and Preservative.

INCI Names: (1) Polymethacrylamidopropyl Trimonium Chloride, (2) PEG-4 Rapeseedamide, (3) Dihydroxypropyl PEG-5 Linoleammonium Chloride, (4) Cocamidopropyl Betaine, (5) Cetrimonium Chloride