

VARISOFT® W 575 PG

Conditioning agent for use in hair rinse formulations

- excellent conditioning properties
- improved hair gloss
- vegetable based
- good dermatological and toxicological behaviour
- biodegradable

Personal Care

INCI Name

Quaternium -87

Chemical and physical properties (not part of specifications)

Appearance (20 °C)	paste
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Properties

VARISOFT® W 575 PG is an imidazolinium quat designed for the formulation of biodegradable hair care formulations. It is vegetable based.

This liquid quaternary, dissolved in propylene glycol, is easy to handle and to disperse. It is compatible with non-ionic surfactants.

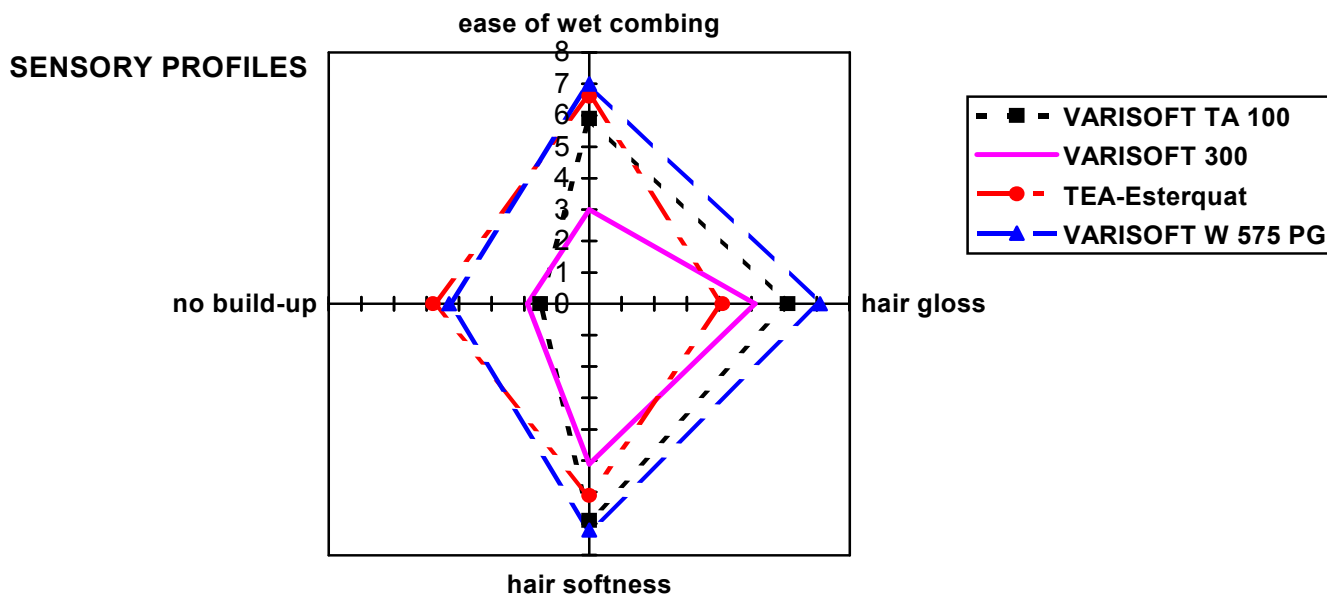
VARISOFT® W 575 PG has excellent antistatic properties and is substantive to the hair without any significant build-up effect.

Furthermore, in comparison to other quaternaries, it does not reduce the volume after a hair rinse application.

This vegetable based imidazoline quat provides exceptional improvement to the four main test criteria as shown in the following comparison of sensory profiles, particularly notable is the excellent hair gloss performance:

- Ease of wet combing
- No Build-up
- Hair gloss
- Hair softness

The following graph shows this improvement of the sensory profiles in comparison to conventionally used quats.



Application

VARISOFT® W 575 PG is used in hair rinses and hair masks to improve dry and wet combing.

Preparation

VARISOFT® W 575 PG should be dispersed at approximately 60 °C.

Suggested usage concentration

2 - 10 % VARISOFT® W 575 PG

Storage

VARISOFT® W 575 PG tends to turbid crystallisation during storage. In this case heat to approx. 50 °C and mix until uniform. This does not affect the quality.

Packaging

720 kg (4 x 180 kg)

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guide Line Formulations

Hair Rinse	
VARISOFT® W 575 PG (Quaternium-87)	3.0 %
TEGOSOFT® APM (PPG-3 Myristyl Ether)	2.0 %
TEGIN® (Glyceryl Stearate)	1.0 %
Hydroxyethylcellulose (Natrosol 250 HHR)	1.0 %
Water deion., preservative, fragrance	up to 100.0 %
Preparation: Prepare Hydroxyethyl cellulose solution by dissolving and stirring it at 45 °C for a certain time, then add and disperse the other ingredients at approx. 60 °C and adjust the pH value to 4.0 with citric acid.	

Conditioning hair rinse for long and fine hair UK 168/F/5	
Phase A	
TEGINACID® C (Ceteareth-25)	0.5 %
TEGO® Alkanol 1618 (Cetearyl Alcohol)	3.0 %
TEGO® Amid S 18 (Stearamidoproyl Diethylamine)	0.7 %
ABIL® Soft AF 100 (Methoxy PEG/PPG-7/3 Aminopropyl Dimethicone)	0.7 %
VARISOFT® W 575 PG (Quaternium-87)	0.9 %
Phase B	
Water	93.2 %
Propylene Glycol	1.0 %
Citric Acid (20%)	0.7 %
Phase Z	
Preservative, Perfume	q.s.
Preparation: Heat both phases up to 65-70°C. Combine both phases and homogenize. Cool down while stirring. Add perfume below 45°C. Remarks: Formula provides volumizing properties.	

Conditioning hair rinse for colored hair SG 872/1	
Phase A	
TEGIN® M Pellets (Glyceryl Stearate)	2.0 %
TEGO® Alkanol 1618 (Cetearyl Alcohol)	3.0 %
TEGO® Amid S 18 (Stearamidoproyl Diethylamine)	0.7 %
VARISOFT® BT 85 Pellets (Behentrimonium Chloride)	0.8 %
VARISOFT® W 575 PG (Quaternium-87)	0.9 %
Phase B	
Water	90.9 %
Propylene Glycol	1.0 %
Citric Acid (20%)	0.7 %
Phase Z	
Preservative, Perfume	q.s.
Preparation: Heat both phases up to approx. 80°C (the VARISOFT BT 85 has to be melted). Combine both phases and homogenize at approx. 65°C. Cool down while stirring. Add perfume below 45°C. Adjust pH value to 4-5. Remarks: Formula provides wash fastness and makes hair feel smooth.	

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(Status: April, 2008)