

Mild Shampoo Featuring:
 Silsoft* Silk PMF conditioning agent

HAIR CARE



Silsoft Silk PMF conditioning agent helps mild shampoos like the one below provide a silky smooth hair feel. It also promotes curl retention and anti-frizz properties for curly hair.

Phase	Ingredients	INCI Name	Wt (%)
A	Water	Aqua	qs to 100
	ELFAN [†] AT 84 G surfactant ²	Sodium Cocoyl Isethionate	9.0
	Euranaat LS3 ³	Disodium Laureth Sulfosuccinate	7.0
	Crodasinic [†] LS 30 ⁴	Sodium Lauroyl Sarcosinate	4.0
B	Water	Aqua	0.5
	Disodium EDTA	Disodium EDTA	0.05
C	Euroglyc AMS ³	Sodium Cocoamphoacetate	9.0
D	Water	Aqua	10.0
	Celquat [†] SC 230C polymer ²	Polyquaternium - 10	0.2
E	Silsoft Silk PMF conditioning agent¹	Silicone Quaternium-18 (and) Trideceth-6 (and) Deceth-7 (and) Cocamidopropyl Betaine (and) Dipropylene Glycol	2.0
F	Crothix [†] Liquid ⁴	PEG-150 Pentaerythrityl Tetrastearate (and) PEG-6 Caprylic/Capric Glycerides (and) Aqua	1.0
	Eur-Amid N2 ³	Cocamide MIPA (and) Laureth-4	2.5
G	Crov ol [†] A 70 ⁴	PEG-60 Almond Glycerides	0.5
	Fragrance		as needed
H	Sodium Chloride	Sodium Chloride	0.5
	Water	Aqua	1.5
I	Preservative		as needed

Procedure:

- Dissolve Elfan AT 84 G surfactant in hot water (60-70 °C). Cool to 30-35 °C, add other ingredients of phase A, mix well.
- Prepare the solution of Disodium EDTA in water (1:10) and add to A.
- Add Sodium Cocoamphoacetate with stirring and mix until uniform.
- Prepare the solution of Polyquaternium-10 in water (1:50) (should be clear) then add it to the shampoo and mix until uniform.
- Add the ingredients of phase E and mix.
- Heat the mixture of phase F to 40-45 °C and add it to the shampoo with gentle stirring.
- Add the mixture of solubilizer and fragrance, if desired, and stir until uniform.
- Adjust the viscosity with the solution of Sodium Chloride.
- Add the preservative and adjust with citric acid to pH 6.0 - 7.0.

Typical Physical Properties:

Appearance:	Clear shampoo
pH:	6.0 - 7.0
Viscosity:	5000 - 10000 cPs
Stability:	3 months/45°C

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¹⁻⁴Trademarks of their respective owners.

Typical properties are average test data, may vary and are not to be used as or to develop specifications.

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Suppliers:

1. Momentive Performance Materials
2. AkzoNobel Personal Care
3. EOC Group
4. Croda International Plc

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