

Clear Sulfate-Free Shampoo (CS-19)

This Clear Sulfate-Free Shampoo produces a thick, creamy foam and is very mild. SeraShine® EM 224C -E (Dimethiconol (and) TEA-Dodecylbenzenesulfonate (and) Laureth-23) is a microemulsion which allows clear shampoos and offers conditioning for all hair types. This emulsion is also MIT and paraben-free.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Water	To 100	-	Vehicle
Glycerin	1.00	Surfac G995V/Surfachem	Humectant
Polyquaternium-10	0.20	Celquat SC230M/Azelis (Akzo Nobel)	Conditioner/Silicone Deposition Aid
Cocamidopropyl Betaine	15.00	Surfac B4/Surfachem	Amphoteric Surfactant
Sodium Lauryl Sulfoacetate (and) Disodium Laureth Sulfosuccinate	7.50	Stepan Mild LSB/Surfachem (Stepan)	Anionic Surfactant
Sodium Cocoyl Sarcosinate	20.00	Crodasinic CS30/Croda	Anionic Surfactant
Glyceryl Caprylate/Caprata	3.00	Stepan Mild GCC/Surfachem (Stepan)	Foam Booster
Acrylates Copolymer	8.00	Carbopol Aqua SF-1 /Surfachem	Suspending Agent/Thickener
Sodium Hydroxide	1.20	Sodium Hydroxide Liquor 32%/Univar	pH Adjuster
Methylisothiazolinone (and) Methylchloroisothiazolinone	0.07	Euxyl K120/Schulke	Preservative
Dimethiconol (and) TEA-Dodecylbenzenesulfonate (and) Laureth-23	3.00	SeraShine® EM 224C-E/KCC Beauty	Conditioning Agent
Parfum (Fragrance)	qs	-	Fragrance
Citric Acid	0.27	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster

Typical Properties

Appearance:	Clear, viscous liquid
Viscosity @ 25°C:	5000 – 9000cP (Brookfield RVT, Sp3, 10rpm)
pH @ 25°C:	5.5 – 6.5

Method

Add the water to the vessel.

Premix the glycerine and Celquat and add to the batch. Stir until thickened and clear.

Add the surfactants.

Add the Carbopol. Adjust the pH to 6.5 – 7.5 with sodium hydroxide.

Basildon Chemical Co. Ltd, Kimber Road, Abingdon, Oxfordshire, OX14 1RZ, UK

KCC Corporation, 1301-4, Seocho-Dong, Seocho-Gu, 137-703, Seoul, Korea

☎ +44 (0)1235 526677 | 📧 info@kcc-beauty.com | 🌐 www.kcc-beauty.com

Add the rest of the ingredients in order.
Check the pH and viscosity. Adjust with citric acid.



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Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

Basildon Chemical Co. Ltd, Kimber Road, Abingdon, Oxfordshire, OX14 1RZ, UK
KCC Corporation, 1301-4, Seocho-Dong, Seocho-Gu, 137-703, Seoul, Korea
☎ +44 (0)1235 526677 | ✉ info@kcc-beauty.com | 🌐 www.kcc-beauty.com