



Clear Conditioning Shampoo (CS-22)

This sulfate-free formula produces a thick and creamy foam which is very mild. Amino functional silicones like **SeraShine® EM322C** can encourage deposition at the more damaged areas of the hair shaft where more intense conditioning is required. Using a microemulsion also enables effective conditioning without affecting the clarity of the formulation. **Vida-Care PQ-10** offers light conditioning and aids deposition.

| 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 | Vida-Care PQ-10/KCC Basildon | Conditioning/Deposition Agent |
| Sodium Laureth Sulfate | 25.00 | Steol CS-230 KE/Surfachem | Anionic Surfactant |
| Sodium Lauryl Sulfate | 15.00 | Stepanol WA-Extra-E/Surfachem | Anionic Surfactant |
| Cocamidopropyl Betaine | 6.00 | Surfac B4/Surfachem | Amphoteric Surfactant |
| Sodium Benzoate | 0.30 | Surfac Sodium Benzoate BP/Surfachem | Preservative |
| Amodimethicone (and) C12-14 sec-Pareth-5 (and) C12-14 sec-Pareth-9 | 3.00 | SeraShine® EM 322C/KCC Beauty | Conditioning Agent |
| Citric Acid | 0.33 | Surfac Citric Acid Mono BP | pH Adjuster |
| Parfum | <i>q.s.</i> | - | Fragrance |
| Sodium Chloride | 3.00 | Salt Pure Vacuum Dried/British Salt | Thickener |
| PEG-150 Pentaerythrityl Tetrastearate (and) PPG-2 Hydroxyethyl Cocamide (and) Aqua | 0.20 | Versathix/Croda | Thickener |

Typical Properties

| | |
|---|-----------------------|
| Appearance: | Clear, viscous liquid |
| Viscosity @ 25°C: 7000 - 10000cP (Brookfield RVT, Sp3, 10rpm) | |
| pH @ 25°C: | 4.5 - 4.9 |

Method

Add the water to the vessel.

Premix the glycerine and polyquaternium-10, add to the water and stir until clear.

Add the rest of the ingredients in order.

Adjust viscosity and pH to spec.

! Silicone microemulsions typically reduce viscosity; therefore a non-ionic thickener may be required

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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.

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