



Formulation

Name	CLEAR CONDITIONING SHAMPOO	
No.	956	
Description	This is an amide-free premium product that features Betaine, Sulfosuccinate, and Sodium Coco-Sulfate.	
Formulation	INGREDIENTS:	<u>% by Weight</u>
	Deionized Water	q.s. to 100.0
	AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)	14.0
	STEPAN-MILD® SL3-BA	8.0
	STEPANOL® DCFAS-F	5.0
	Propylene Glycol	3.0
	Citric Acid (50% solution)	q.s.
	Dow Corning 193 Surfactant (Dow Corning) PEG-12 Dimethicone	3.0
	DL-Panthenol (Roche) Panthenol	0.2
	Fragrance, Dye and Preservative	q.s.
	Sodium Chloride	q.s.
	Total	100.0
Procedure	<ol style="list-style-type: none"> Mix and heat the first five ingredients to 70°C-80°C (158°F-176°F). When the solid components are completely dissolved, allow to cool with continuous stirring. Adjust to the desired pH by adding the Citric Acid (50% solution). Add the Dow Corning 193 Surfactant, DL-Panthenol, Fragrance, Dye, and Preservative with mixing. Adjust to the desired viscosity with Sodium Chloride. <p>*Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid (50% solution) may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.</p>	
Physical Properties	Appearance at 25°C	Clear liquid
	pH, 10% aqueous	6.5-7.5
	Viscosity with 1.0% by weight Sodium Chloride, cps	2,800
Storage/Stability	2 weeks at 50°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions for Use	Wet hair, lather, and rinse.	
External Comment	Storage at 10°C (50°F) has the tendency to be cloudy, but the formulation returns to the original clarity at 25°C (77°F).	
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