



# Formulation

Name	PREMIUM HAIR CONDITIONER WITH SILICONE		
No.	1087		
Description	This product conditions hair while still leaving it clean, shiny, and controllable.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	=== Phase 1 ===		
	Deionized Water	q.s. to 100.0	Solvent, Carrier
	Stearamidopropyl dimethyl amine	0.50	Emulsifier, Stabilizer
	STEPANQUAT® GA 90	2.22	Conditioning Agent
	CETYL ALCOHOL, NF	3.00	Emulsifier, Thickener
	=== Phase 2 ===		
	Potassium Chloride	0.30	Opacifier, Thickener
	=== Phase 3 ===		
	Cyclomethicone	2.00	Conditioning Agent
	Cationic Emulsion 929	5.71	Conditioning Agent
	=== Phase 4 ===		
	Citric Acid 50% solution	q.s.	pH Modifier
	Sodium Hydroxide 50% solution	q.s.	pH Modifier
	Fragrance, Dye, & Preservative	q.s.	Additives
	Total	100.0	
Procedure	Into a suitable vessel equipped with heating, cooling, and agitation, add Deionized Water. Begin to mix, heat to 70-75°C (158-167°F). Add Stearamidopropyl dimethyl amine, STEPANQUAT® GA-90 and CETYL ALCOHOL, NF. Emulsify for 30 minutes and maintain the temperature between 70°C–75°C (158°F–167°F). Cool to 38°C–48°C (100°F–118°F). Add Potassium Chloride dissolved in water. Mix well. Add Cyclomethicone and Cationic Emulsion 929. Adjust pH to 3.5–4.5 with Citric Acid and Sodium Hydroxide if necessary. Cool to ambient temperature with continuous agitation. Add fragrance, dye and preservative, as desired.		
Physical Properties	Appearance at 25°C	Thick, opaque lotion	
	pH (as is)	3.5–4.5	
Instructions for Use	Work through clean, wet hair from roots to ends. Rinse thoroughly. Repeat if necessary.		
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