

Name	SHAMPOO WITH HEAT PROTECTION	
No.	814	
Description	This shampoo protects the hair from heat in addition to having excellent cleansing and conditioning properties.	
Formulation	INGREDIENTS:	% by Weight
	=== Phase 1 === Deionized Water STEPANOL® AM-V STEOL® CS-230 NINOL® LMP	q.s. to 100 34.5 32.0 2.0
	=== Phase 2 === HALLSTAR® SAB-2 (Hallstar) Distearyl Phthalic Acid Amide	3.5
	=== Phase 3 === Silsoft A-843 (Witco) Dimethicone Bisaminohydroxypropyl Copolyol	2.0
	=== Phase 4 === AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) Liquid DL-Panthenol (Roche) Panthenol Hydrotriticum WAA (Croda) Wheat Amino Acids Crodasone W (Croda) Hydrolyzed Wheat Protein PG-Propyl Silanetriol	6.7 1.0 1.8 1.85
	=== Phase 5 === Sodium Hydroxide, 50% solution Citric Acid, 50% solution Sodium Chloride Preservative, Dye, Fragrance	q.s. q.s. q.s. q.s.
	Total	100.0
Procedure	 Combine Phase 1 ingredients and heat to 76°C-79°C (170°F-175°F). Add Phase 2 ingredient at 79°C (175°F). Mix until dispersed. Add Phase 3 ingredient. Emulsify for 25-30 minutes while maintaining the temperature between 76°C-79°F (170°F-175°F). Start cooling. At 38°C (100°F), add Phase 4 ingredients. Mix well. When mixture cools to 27°C (80°F), add Phase 5 ingredients to adjust pH and viscosity at 27°C (80°F). Mix well. *Note: When formulating with AMPHOSHOL® 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. 	
Physical Properties	Appearance at 25°C pH, as is Viscosity at 25°C, cps	Opaque liquid 5.8-6.2 6,500-7,000
Storage/	3 months at 25°C	Stable

Stability 2 months at 50°C Stable

Instructions for Use

Apply to wet hair. Lather, rinse and repeat, if desired.

External Comment

Marketing Notes: Amide free indicates that this formulation does not contain an alkanolamide. STEOL® CS-230 PC HP may be a potential substitute for STEOL CS-230. It should be noted that stability testing using this STEOL® CS-230 PC HP has not been completed on this formulation, and in addition to the pH adjustment taking a greater amount of Citric Acid, 50% solution, the substitution may also yield slightly different physical properties. STEPANOL® AMV PCK may be a potential substitute for STEPANOL® AM-V. It should be noted that stability testing using this STEPANOL® AMV PCK has not been completed on this formulation. The substitution may yield slightly different physical properties.

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