



# Formulation

Name	<b>MOISTURIZING SHAMPOO</b>	
No.	886	
Description	This premium conditioning shampoo is excellent for dry, damaged, and chemically treated hair. It is a very mild formula which will provide excellent foam and some moisturizing properties to the hair.	
Formulation	<b>INGREDIENTS:</b> Deionized Water UCARE Polymer JR-30M (Amerchol) Polyquaternium-10 Rhodigel (R.T. Vanderbilt) Xanthan Gum Versene NA (Dow Chemical) Disodium EDTA STEPANOL® AM-V STEOL® CA-330 AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) NINOL® C-4 STEPAN® PEARL 4 Glycol Stearate Dow Corning 193 Surfactant (Dow Corning) PEG-12 Dimethicone Merquat 550 (Calgon) Polyquaternium-7 DL-Panthenol (Roche) Panthenol Fragrance, Dye, & Preservative Citric Acid Sodium Chloride	<u>% by Weight</u> <u>Functionality</u> q.s. to 100.0 Solvent, Carrier 0.3 Conditioning Agent 0.5 Thickener 0.1 Chelating Agent 25.0 Primary Surfactant 18.0 Primary Surfactant 3.6 Secondary Surfactant 0.5 Secondary Surfactant 3.0 Pearlescent Agent 0.75 Pearlescent Agent 1.0 Conditioning Agent 3.0 Conditioning Agent 0.15 Additive q.s. Additives q.s. pH Adjuster q.s. Viscosity Adjuster
	<b>Total</b>	<b>100.0</b>
Procedure	1. Charge Deionized Water in a suitable vessel equipped with heating and agitation capabilities*. 2. Sprinkle UCARE Polymer JR-30M into water. Mix until well dispersed. 3. Sprinkle Rhodigel into water. Mix until well dispersed. 4. Begin heating to 72°C-75°C. 5. Add Versene NA, STEPANOL® AM-V, STEOL® CA-330, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), NINOL® C-4, STEPAN® PEARL 4, Glycol Stearate, and Dow Corning 193 Surfactant with moderate agitation. 6. Continue heating to 72-75°C. 7. Mix until everything is completely dissolved for at least 30 minutes. 8. Begin cooling to 40°C. Adjust mixing speed to minimize aeration. 9. At 40°C, add Merquat 550, DL-Panthenol, Fragrance, Dye, and Preservative and continue mixing. 10. Continue cooling the batch to 25°C. Adjust pH with Citric Acid, if necessary. 11. Adjust viscosity with Sodium Chloride, if necessary. * Turbine agitator (Eurostar digital mixer, IKA Labortechnik) was used to make this formulation. 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.	
Physical	Appearance, as is	Pearlescent viscous liquid

Properties	pH, as is Viscosity at 25°C (RV Spindle #6 at 20 rpm), cps	5.0-6.0 4,000-5,000
Storage/ Stability	3 months at 25°C	Stable
Instructions for Use	Wet hair, lather, and rinse.	
External Comment	Marketing Notes: 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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