

# Formulation

Name	<b>CLEAR MOISTURIZING SHOWER GEL WITH HIGH FRAGRANCE LEVEL</b>	
No.	1266	
Description	This clear moisturizing shower gel contains a high level of fragrance and maintains clarity, foaming and viscosity without additional salt being added.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u> <u>Functionality</u></b>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100 Diluent
	STEPANOL® WA-EXTRA HP	32.00 Surfactant
	STEOL® CS-230 PCK LDX	16.00 Surfactant
	AMPHOSOL® LB-K	3.00 Secondary Surfactant
	Citric Acid (50% aqueous solution)	q.s. pH Adjuster
	=== Phase 2 ===	
	NINOL® CAA	2.00 Solubilizer
	Fragrance	2.75 Fragrance
	Dipropylene Glycol (DPG) (Dow Chemical) Dipropylene glycol	1.00 Solubilizer
	=== Phase 3 ===	
	STEPAN-MILD® L3	0.50 Emollient
	=== Phase 4 ===	
	Glucamate™ DOE-120 (Lubrizol) PEG-120 Methyl Glucose Dioleate	0.75 Thickener
	=== Phase 5 ===	
	Preservatives and Dye	q.s. Additives
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water, STEPANOL® WA-EXTRA HP, STEOL® CS-230 PCK LDX, and AMPHOSOL® LB-K.</li> <li>2. Mix until completely clear.</li> <li>3. Adjust pH with Citric Acid to 5.0-5.5.</li> <li>4. Heat to 50 °C (122 °F).</li> <li>5. In a separate vessel pre-mix Fragrance, Dipropylene Glycol and NINOL® CAA. Mix until completely clear.</li> <li>6. Add this premix to the batch with agitation at 50 °C (122 °F). Mix until completely clear and everything is dissolved. Avoid aeration.</li> <li>7. Add STEPAN-MILD® L3 at 50 °C (122 °F) with agitation. Mix until completely clear.</li> <li>8. Add Glucamate™ DOE-120 at 50 °C (122 °F) with agitation. Mix until completely clear.</li> <li>9. Adjust pH with Citric Acid.</li> <li>10. Add Preservatives and Dye with agitation.</li> </ol>	
Physical Properties	Appearance, as is	Clear viscous liquid
	pH at 25 °C, as is	5.0–5.5
	Viscosity at 25 °C (LVT #3 at 12 rpm), cps	5,000–10,000

Storage/ Stability	4 weeks at 5 °C	Stable
	4 weeks at 25 °C	Stable
	4 weeks at 45 °C	Stable
	Freeze/Thaw 3 cycles	Pass

Instructions for Use: For use in the shower, apply gel to a wet body sponge, washcloth or hand, apply to the body and rinse off .

External Comment: Marketing Information: The formulator can utilize high level of fragrances and maintain clarity, foaming and viscosity without additional salt being added. BCI = 87. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit [www.stepan.com](http://www.stepan.com).

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For Additional Assistance: For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.

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