



## Rinse-Off Hair Conditioner ARL-24-99-1

<u>PHASE A</u>	<b>% W/W</b>
Deionized Water	65.67
<b>Dicopamine® PC-35<sup>1</sup> (Water (and) Cetrimonium Chloride (and) Dimethicone PEG-7 Phosphate)</b>	5.00
<b>Pecosil® SO-9<sup>1</sup> (PEG-9 Dimethicone Phosphate (and) PEG-9 Olivat)</b>	5.00
<b>Pecosil® PAN-4181<sup>1</sup> (Water (and) Steardimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride)</b>	5.00
<u>PHASE B</u>	
<b>BIOGEL® Argan Butter<sup>1</sup> (Hydrogenated Argania Spinosa Kernel Oil)</b>	1.50
<b>BIOGEL® Canola Butter<sup>1</sup> (Hydrogenated Canola Oil)</b>	1.50
Lipocol C <sup>2</sup> (Cetyl Alcohol)	4.50
<b>Phoenoxol® T<sup>1</sup> (Cetearyl Alcohol (and) Steareth-30 (and) Cetareth-10)</b>	3.00
<b>Catamol® 220B<sup>1</sup> (Behenamidopropyl Dimethylamine Behenate)</b>	5.00
<b>Pelemol® IN-2<sup>1</sup> (Isononyl Isononanoate)</b>	3.00
<u>PHASE C</u>	
Preservative	q.s
<u>PHASE D</u>	
Citric Acid 25% Aqueous Solution	0.83
	100.00

1. **Phoenix Chemical, Inc.**
2. Vantage Personal Care.

**Procedure:**

In main kettle, combine ingredients from Phase A. Mix and begin heating to 70-75°C. In a separate beaker, combine Phase B and heat to 70-75°C. When both Phase A and Phase B are at 70-75°C, add Phase B to Phase A while mixing with prop mixer. Once uniform, switch to sweep blade and begin cooling to 35°C. Add Phase C. Continue cool down with slow mixing to room temperature. Adjust pH with Phase D.

<b>INGREDIENT</b>	<b>FUNCTION</b>
<b>Dicopamine PC-35</b>	Provides conditioning, softness and volume to hair.
<b>Pecosil SO-9</b>	Emollient. It provides conditioning and reduce dry ends.
<b>Pecosil PAN-418</b>	Adds softness, sheen, volume and hydration while enabling hair to withstand breakage.
<b>BIOGEL Argan Butter</b>	Provides moisturization and silkiness to hair.
<b>BIOGEL Canola Butter</b>	Provides moisturization and silkiness to hair.
<b>Phoenoxol T</b>	Emulsifier.
<b>Catemol 220B</b>	Mitigates static fly-away as well as improves wet and dry manageability.
<b>Pelemol IN-2</b>	Lightweight ester for emollience.