

Creamy Hair Shampoo

(Sample Recipe for Alpha Olefin Sulfonate)

Creamy Hair Shampoo		
Phase A	Weight %	For 100 g / 3.6 oz
Water (diluent)	49.3%	49.3g / 1.8oz
Sodium PCA (humectant)	2.0%	2.0g / 0.07oz
Phase B		
Sulfosuccinate (surfactant)	20.0%	20g / 0.7oz
Coco Betaine (surfactant)	10.0%	10g / 0.4oz
Alpha Olefin Sulfonate (surfactant)	10.0%	10g / 0.4oz
Glyceryl Oleate (emulsifier)	1.0%	1.0g / 22 drops
Squalane (emollient)	2.0%	2.0g / 0.07oz
PEG-150 Distearate (emulsifier)	1.5%	1.5g / 0.05oz
Phase C		
Quaternium-31 (conditioner)	2.0%	2.0g / 0.07oz
Provitamin B5 (conditioner)	0.5%	0.5g / 11 drops
Fragrance (optional)	0.5%	0.5g / 11 drops
Phenoxyethanol-SA (preservative)	1.2%	1.2g / 24 drops
Citric Acid (conditioner) to pH 5.5		
Method		
Combine phase A in a heat resistant glass beaker and stir well. Heat phase A to to 75C/170F.		
Combine phase B in another heat resistant beaker and heat to the same temperature. Add phase A to phase B and maintain good agitation. Remove from the heat and cool to 40C/100F. Add phase C one by one, stirring between ingredients. Test pH and adjust if necessary with a very small amount of citric acid to pH 5.5.		
Properties		
Creamy hair shampoo that moisturizes and conditions and does not strip hair from its natural emollients.		