

## Simple Hair Conditioner for Sensitive Skin

(Sample Recipe for Propanediol 1,3)

### Simple Hair Conditioner for Sensitive Skin

Phase A	Weight %	For 100 g / 3.6 oz
Water (diluent)	83.80%	83.8g / 3.3oz
Propanediol 1,3 (humectant)	2.00%	2.0g / 0.07oz
Glycerin (humectant)	2.00%	2.0g / 0.07oz
<b>Phase B</b>		
Cetearyl Alcohol (emulsifier)	4.00%	4.0g / 0.14oz
Isoeicosane (emollient)	2.00%	2.0g / 0.07oz
Conditioner SD (conditioner)	2.00%	2.0g / 0.07oz
Ceteareth-20 (emulsifier)	2.00%	2.0g / 0.07oz
<b>Phase C</b>		
Provitamin B5 (active ingredient)	1.00%	1.0g / 0.04oz
Caprylyl Glycol EHG (antimicrobial agent)	1.20%	1.2g / 0.04oz
Citric Acid (acidulant)	q.t	

#### Method

Add phase A to a clean mixing vessel, blend well and heat to 65C/150F. Add phase B to another clean mixing vessel and heat to the same temperature. Add phase A to phase B and blend well. Remove from the heat source. Use a stick blender or homogenizer to blend well. Cool to room temperature. Add phase C one by one and blend well. Test pH and adjust to pH 5.5–6.5 with citric acid, stir for 1–2 minute before re-testing the pH, repeat if necessary. Fill into appropriate containers.

#### Properties

A simple but effective hair conditioner that does not build up. It's free of many ingredients that may cause skin sensitivities in some individuals and it's also fragrance free. Apply to damp hair leave-in for 1–2 minutes and rise out.