

Self-Tanning Lotion for Pump-Spray Bottles

Phase A	Weight %	For 240 g / 8.5 oz
Distilled Water	83 %	199 g / 7.1 oz
Dihydroxyacetone	3 %	7.2 g / 0.26 oz
Erythulose	3.5 %	8.4 g / 0.3 oz
EDTA	0.2 %	0.5 g / 1/4 tsp
Phase B		
Xanthan Gum	0.5 %	1.2 g / 0.04 oz
Phase C		
Sorbitol	6 %	14.4 g / 0.5 oz
PEG-7 Glyceryl Cocoate	3 %	7.2 g / 0.26 oz
Potassium Sorbate	0.2 %	0.5 g / 1/4 tsp
Paraben-DU	0.5 %	1.2 g / 0.04 oz
Fragrance	0.3 %	0.7 g / 16 drops

Method

Give phase A into a clean, disinfected heat resistant glass jar and stir in the dihydroxyacetone and erythulose until dissolved. Sprinkle then phase B into phase A and mix thoroughly with a blender or mixer to dissolve the xanthan gum. Add phase C to phase A/B one by one and stir well. The pH of this self-tanner should be 4-5 (use pH indicator strips). the pH can be adjusted with citric acid.

Properties

After application on the skin, the tanning effect of dihydroxyacetone will appear after 2-3 hours, whereas the effect of erythulose only after 1-2 days. This self-tanning lotion has no UV protection.