



# Reference Formula

Created Date : 7/14/2010 8:43 PM  
Last Save Date : 8/31/2016 11:55 AM

## Clear 2-in-1 Shampoo

EP-HC-SC-0001A\_V1

### FORMULA

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% By Weight
A	D.I Water	D.I Water	65.31%
	SC-230M	Polyquaternium-10	0.20%
	M.P	Methyl Paraben	0.20%
	EDTA-4Na	Tetrasodium EDTA	0.05%
B	CAPB (30%)	Cocamidopropyl Betaine	6.50%
C	SLES (70%)	Sodium Lauryl Ether Sulfate	22.00%
D	<b>MEM-8168 Emulsion (Xiameter)</b>	<b>Amodimethicone (and) C12-14 sec-Pareth-7 (and) C12-14 sec-Pareth-5</b>	<b>3.00%</b>
E	Glydant Plus Liquid	DMDM Hydantoin (and) Iodopropynyl	0.30%
		Butylcarbamate	
F	<b>Essential Oil Vitamin E Acetate (DSM)</b>	<b>Essential Oil</b>	<b>1.00%</b>
		<b>Tocopheryl Acetate</b>	<b>0.05%</b>
G	Citric Acid (30% soln')	Citric Acid	0.09%
H	NaCl	Sodium Chloride	1.30%

### PROCEDURE

1. Mix the ingredients in Phase A and heat to 75°C till all ingredients melt.
2. Add Phase B-C to Phase A under agitation.
3. Then cool down to 40°C and add Phase D-F under agitation.
4. Adjust the pH around 5.5 with citric acid.
5. Adjust the viscosity with Phase H.

### SPECIFICATION

APPEARANCE	: Clear Viscous Liquid	
VISCOSITY	: approx. 3,000 ± 1,000 CP	(LVT, 3 # SPINDLE, 12 rpm, 3 min , 25°C)
pH	: approx. 5.5 ± 0.5	(25°C)

Recommendations contained, herein this Reference Formula, are advisory only.

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