

# STEPAN® 745 GC

## Novel Water-Compatible Emollient for Clear Cleansing Products

STEPAN® 745 GC is a 100% active nonionic liquid emollient. STEPAN® 745 GC is an alkoxyated derivative of Glyceryl Cocoate. It is a naturally-derived, high HLB ingredient that offers enhanced multifunctionality.

**INCI Name:** PEG/PPG-6/2 Glyceryl Cocoate

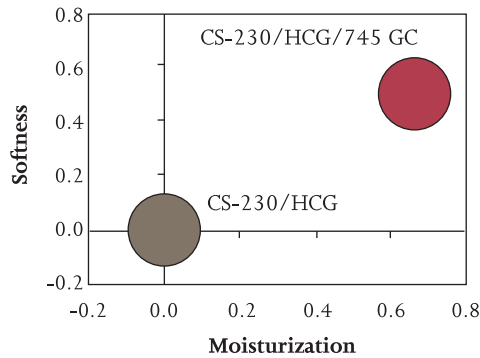
**Physical Form:** Clear Liquid

**Use Level:** 2-10%

### Unique Attributes

- Compatibility with aqueous systems
- Conditioning properties
- Good viscosity building properties in both Sodium and Ammonium-based surfactant systems
- Minimum effect on foaming
- Exhibits clarity and can be incorporated in a surfactant system via cold mix

### Skin Conditioning Properties

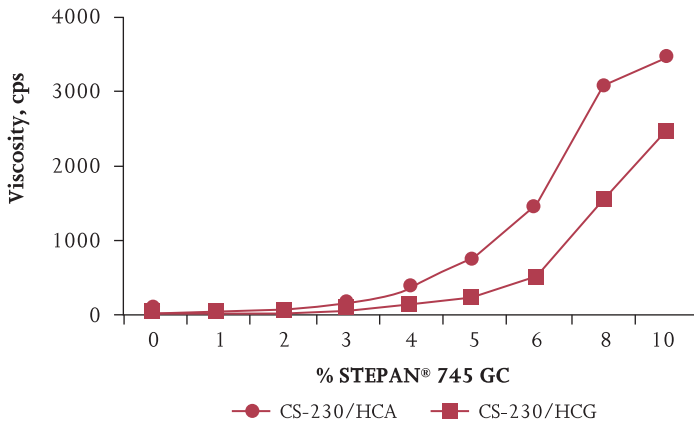


### Applications

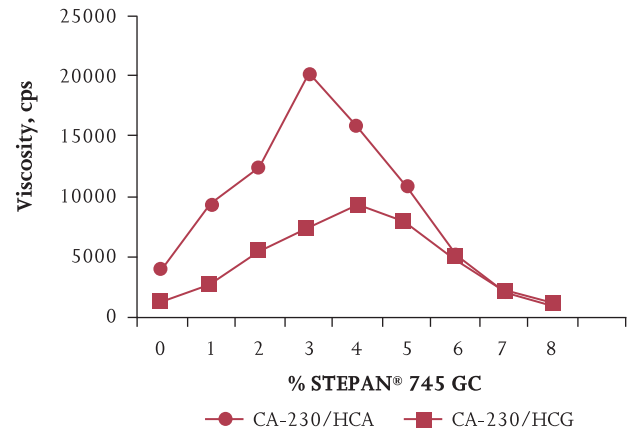
- Liquid soaps
- Bath and body washes
- Facial cleansers
- 2-in-1 and regular shampoos

## Viscosity Building Properties in Surfactant Systems (no salt added)

### Sodium System



### Ammonium System



CS-230 = Sodium Laureth Sulfate  
CA-230 = Ammonium Laureth Sulfate  
HCA = Cocamidopropyl Betaine  
HCG = Cocamidopropyl Betaine\*  
\* contains glycerin



# Clear Body Wash: Formulation #977

## STEPAN® 745 GC provides nice after-feel on the skin

Ingredients	% by Weight
<b>Phase 1</b>	
Deionized Water	q.s. to 100.0
<b>Phase 2</b>	
Jaguar C-13S (Rhodia Inc.), Guar Hydroxypropyltrimonium Chloride	0.2
<b>Phase 3</b>	
STEOL® CS-130	55.0
AMPHOSOL® HCA	10.0
ALPHA-STEP® PC-48	5.0
<b>STEPAN® 745 GC</b>	<b>8.0</b>
<b>Phase 4</b>	
Vitamin E Acetate (Roche), Tocopheryl Acetate	0.1
Vitamin A Palmitate (Roche), Retinyl Palmitate	0.1
Versene 100 (Dow Chemical), Tetrasodium EDTA	0.2
Preservative, Dye, Fragrance	q.s.
<b>Phase 5</b>	
Citric Acid (50%)	q.s.
Sodium Chloride	q.s.

### Mixing Procedure:

1. In a suitable vessel equipped with agitation capabilities, charge Phase 1.
2. Add Phase 2. Mix well until dissolved.
3. Add ingredients of Phase 3 and Phase 4 while continue mixing.
4. Adjust pH and viscosity with ingredients in Phase 5, if necessary.

### Physical Properties

Appearance	Clear viscous liquid
pH, as is	5.5 – 6.0
Viscosity at 25°C, cps	3,000 – 5,000

# Clear Conditioning Shampoo: Formulation #1057

## This clear shampoo provides cleansing as well as conditioning

### STEPAN® 745 GC provides conditioning effect

Ingredients	% by Weight
<b>Phase 1</b>	
Deionized Water	q.s. to 100.0
<b>Phase 2</b>	
Versene NA (Dow Chemical), Disodium EDTA	0.1
STEPANOL® AMV	25.0
STEOL® CA-230	18.0
AMPHOSOL® HCG	3.6
<b>STEPAN® 745 GC</b>	<b>3.0</b>
<b>Phase 3</b>	
NINOL® COMF	2.0
<b>Phase 4</b>	
Glydant (Lonza), DMDM Hydantoin	0.25
<b>Phase 5</b>	
DL-Panthenol (Roche), Panthenol	0.25
Fragrance	q.s.
<b>Phase 6</b>	
Citric Acid (50%)	q.s.
Sodium Chloride	q.s.

### Mixing Procedure:

1. In a vessel equipped with heating and agitation capabilities, add Phase 1.
2. Add ingredients of Phase 2.
3. Heat to 60-65°C.
4. Add Phase 3. Mix until well dissolved.
5. Cool to 40°C. Add Phase 4.
6. Cool to ambient temperature. Add Phase 5.
7. Adjust pH and viscosity with ingredients of Phase 6, if necessary.

### Physical Properties

Appearance	Clear viscous liquid
pH, as is	5.5 – 6.0
Viscosity at 25°C, cps	8,500 – 9,500

Nothing contained herein grants or extends a license, expressed or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.