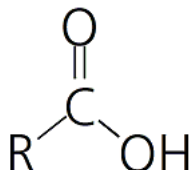


## PRODUCT INFORMATION SHEET

## C-670, Caproic/ Caprylic Acid

### Description:



### Caproic/ Caprylic Acid

**CAS Number:** a mixture of 142-62-1 and 124-07-2

C-670 is a mixture composed of Caproic Acid (C6, 67-75%) and Caprylic Acid (C8, 25-33%); 'R' in the structural diagram above represents a saturated alkyl chain of carbon atoms equal to 5 or 7. The molecule has an even number of total carbon atoms. It is a clear liquid under ambient conditions with a musty odor.

### PHYSICAL PROPERTIES

(all properties @ 24°C (75°F), 760mmHg unless stated)

Specific Gravity: 0.9

Vapor Pressure: < 1mmHg @ 22°C (72°F)

Melting Point: -4°C (24°F)

Viscosity: N/A

Boiling Point: 221.1°C (430°F)

Negligibly soluble in water, but soluble in alcohol and ether under ambient conditions.

### GENERAL INFORMATION

#### Application Uses

End-use applications for C-670 include synthetic lubricants base stock, refrigeration lubricants, medium chain triglycerides, fire resistant hydraulic fluids, tailored fats, alkyl chlorides for agricultural products, phosphate ore floatation, amides for agricultural products, production of plasticizer alcohols, corrosion inhibitors for antifreeze, flavor compounds, perfumes, antiseptics, and fungicides.

### GENERAL INFORMATION cont...

#### Oil Derivation/Allergen/BSE/Microbial:

All of our fatty alcohol brands are produced in P&G Chemicals' global fatty alcohol network. They are manufactured entirely from naturally occurring vegetable oils.

- No preservatives or additives are present.
- No gluten/wheat, corn, dairy, egg, fish/shellfish, sulfites, yeast, starch, MSG, peanut, other nut, rice, sugar, or sodium potential allergens are present.
- Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE) are not a concern with C-670, Caproic/ Caprylic Acid.
- At the low vacuum (12-18 mmHg) and high temperature (up to 550 degF) at which our process operates, we do not believe that microbiological activities exist.

#### Shelf Life

Shelf life is affected by how a product is stored. We expect the shelf life of Fatty Alcohols to be about 1 year if it is kept under the recommended storage and handling conditions. We recommend testing the product for key specifications such as color, hydroxyl value, moisture, acid value, and carbonyl content every 6-12 months. **P&G CHEMICALS DOES NOT PROVIDE SHELF LIVES OR EXPIRY DATES.**

#### Storage and Handling (recommended)

Storage Temp Targets: Ambient to 32°C (90°F) (max)

Handling Temp Min-Max: Ambient to 32°C (90°F) (max)

Sensitive Properties: Color

Max Steam, psi: 150

Nitrogen Blanket: YES, if product is to be held for longer than 3 months.

Load out filter: Strainer

Rail Car or Tank Truck: Stainless Steel, Lined, Aluminum

Agitation/Recirculation: Required only when heating

Storage Tank: 304 Stainless Steel, Aluminum, Fiberglass, Lined with Flakeline 100, Carboglas 1600, Lithcote LC-19 or Kanigen. 304 or 316 Stainless Steel Coils. No Copper or Copper Alloys. Carbon Steel at room temperature is ok ONLY if color is not specified.

Pumps and Lines: Stainless Steel, Aluminum, Plastic

\*Ambient temperature is acceptable even if it is higher than the maximum temperature\*

**For further details, or samples of C-670 and other P&G Chemicals products, visit our website:**

**[www.pgchemicals.com](http://www.pgchemicals.com)**