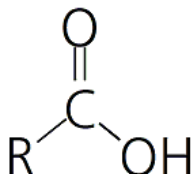


PRODUCT INFORMATION SHEET

C-698/C-699, Caproic Acid

Description:



Caproic Acid

CAS Number: 142-62-1

C-698/ C-699 are primarily composed of Caproic Acid (C₆, 99% min); 'R' in the structural diagram above represents a saturated alkyl chain of carbon atoms equal to 5. 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: 205.6°C (402°F)

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

GENERAL INFORMATION

Application Uses

End-use applications for C-698/ C-699 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-698/ C-699, Caproic 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, Lines 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-698/ C-699 and other P&G Chemicals products, visit our website:
www.pgchemicals.com

IMPORTANT NOTE This technical product information and suggestions for use, while believed to be accurate and reliable, is given without guarantee or warranty of any kind expressed or implied. Purchaser assumes all risk in acting on this information provided by Procter & Gamble representatives. Individual requirements vary, and each purchaser is urged to perform their own tests, experiments and investigations in the use of Procter and Gamble products and for purposes of determining compliance with applicable Federal, State and local laws and regulations. Nothing contained herein shall be construed as a recommendation to use any product in connection with existing patents covering any material or its use. Moreover, no license is to be implied under any Procter & Gamble patents relating to uses of the above