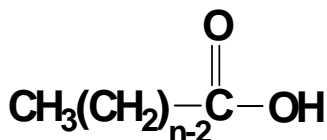




TECHNICAL DATA SHEET

S1618, Palmitic/ Stearic Acid

Description:



S1618, Palmitic / Stearic Acid

CAS#57-11-4; Formula: C_{n-1}H_{2n-1}COOH;

S1618 is a vegetable fatty acid containing a mixture of C16 (20-30%), and C18 (70% min); 'n' in the structural diagram above refers to the different carbon chain lengths present, from C10 up to C22. It is a hard, waxy, white solid at room temperature. In its liquid state, it is a clear colorless, oily liquid with a waxy odor.

PHYSICAL PROPERTIES

(all properties @ 23.9°C (75°F), 760mmHg unless stated)

Typical Equivalent Weight: 271
Specific Gravity: 0.84 @ 75/25°C
Vapor pressure: <0.99 mmHg @ 165°C
Melting Point: 150°F
Viscosity: 10 cp @ 65°C
Boiling Point: 351-376°C at 760 mm Hg
Specific Heat: 0.54 cal/(gm.°C) @ 65°C
Liquid Thermal Conductivity: 36x10⁻⁵ cal/(cm.sec.°C)

Insoluble in water, but soluble in alcohol, ether and most organic solvents; and are solvents for other oils, fatty acids and oil soluble materials.

GENERAL INFORMATION

Application Uses

End-use applications for S1618 include manufacture of glycerol esters, metallic stearates, fatty amines, alkyd resins, paper, plastics coatings, paints, soaps, detergents, cosmetics, creams, lotions, polishing compounds, lubricants, surface coatings and candles.

Shelf Life:

Shelf life is affected by how a product is stored. **For all Fatty Acids, Teck Guan (China) Ltd does not provide a shelf life or expiration date.**

Storage and Handling (recommended):

Temp Min-Max: 165-185°F (74-85°C)

Sensitive Properties: Color

Max Steam, psig: 30

Nitrogen Blanket: YES

Load out filter: 50 Micron

Rail Car or Tank Truck: Stainless Steel (304 min), Aluminum fiberglass, lined

Storage Tank: Stainless Steel (304 min), Aluminum fiberglass, lined

Pumps and Lines: Stainless Steel, plastic

Note:

Fatty acid color changes over time even in glass at room temperature. Sunlight degrades color of samples in glass; protect samples from sunlight

For further details, or samples of S1618 and other Teckno products, please call

+86-513-87589955

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 Teck Guan representatives. Individual requirements vary, and each purchaser is urged to perform their own tests, experiments and investigations in the use of Teck Guan 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.