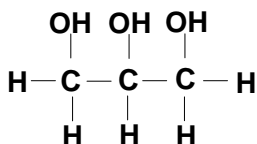




## TECHNICAL DATA SHEET

## USP Glycerine 99.5%

### Description:



USP Glycerine 99.5%,

CAS#56-81-5; **Formula:** CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH;

Glycerine is produced from triglycerides (oil/fat) on dedicated equipment by methanolysis. The process results in the glycerine molecule to separate from the triglyceride. The diagram above shows the glycerine molecular structure. It is a water white liquid with a slightly sweet taste.

### PHYSICAL PROPERTIES

(all properties @ 22°C (72°F), 760mmHg unless stated)

Equivalent Weight: 246	Boiling Point: 290°C
Specific Gravity: 1.25	Taste: Tangy sweet
Melting Point: 19°C	Density (g/ml): 1.261
Viscosity: 71 cp @25°C	Molecular Weight: 92
Flash Point >198.9°C (390°C)	

Stable and soluble in water and miscible with ethanol, slightly soluble with acetone. Water white, liquid.

### GENERAL INFORMATION

#### Application Uses

End-use applications for USP Glycerine include

pharmaceutical applications, food and beverage ingredient, sweetener, personal care items such as tooth pastes, polyether polyols, alkyd resins, explosives, humectants, coatings, pet foods, lubricants, flexible foams, solid fuel, de-/anti-icers, soaps

#### Shelf Life:

We expect the shelf life of USP Glycerine 99.5%, to be approximately 2 years if it is kept under the recommended storage and handling conditions. If the product has not been used within 2 years, we recommend to test the product for key specifications.

#### Storage and Handling (recommended):

Handling Temp Min-Max: 35-52°C (95-125°F)

Sensitive Properties: Odor, Moisture, Color, FA&E, RCS

Max Steam, psig: 10 psig for storage, 30 psig for railcar

Nitrogen Blanket: YES (>1 month)

Load out filter: 5 micron

Rail Car or Tank Truck: Latchet, stainless, aluminum or Food Grade lining

Agitation/Recirculation: Yes

Storage Tank: Stainless Steel or lined with Calcite 252 or Placate 9570

Pumps and Lines: Stainless Steel or lined with Calcite 252 or Placate 9570

**Note:** Heating should not exceed the max handling temperature of (52°C) 125°F

**For further details, or samples of USP Glycerine 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.