Description:

Superol NK Glycerin, USP*/FCC
*For excipient use only

**CAS#** 56-81-5; **Formula:** \(\text{CH}_2\text{OHCHOHCH}_2\text{OH}\)

Superol NK Glycerin is produced by refining crude glycerine in a series of purification steps. Crude glycerine is derived by cleaving the glycerine chain off of its triglyceride backbone. The diagram above shows the glycerin molecular structure. It is a clear, liquid with a slightly sweet taste.

**PHYSICAL PROPERTIES**

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

- Equivalent Weight: 246
- Flash Point >198.9°C (390°F)
- Specific Gravity: 1.26
- Melting Point: 18°C
- Viscosity: ~1150 cp @ 20°C
- Boiling Point: 290°C
- Taste: Tangy sweet

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

**GENERAL INFORMATION**

**Regulatory Compliance:**
- Designated as NK (Non Kosher)
- Complies with USP- United States Pharmacopeias
- Complies with FCC- Food Chemicals Codex
- Complies with IPEC- International Pharmaceutical Excipients Council

**Application Uses:**

End-use applications for Superol NK Glycerin include pharmaceutical applications (for excipient use only), 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, and soaps.

**Derivation/Allergen/BSE & TSE/Microbial:**

Our Superol NK Glycerin is produced at P&G Chemicals’ Cincinnati plant.

- No preservatives or additives are present.
- No allergens are present from the following sources: milk, egg, fish, crustacean shellfish, tree nuts, peanuts, wheat, sulfites, sesame seeds, aspartame, gluten source, monosodium glutamate, mustard seed or soybean
- Our manufacturing process contains a distillation step (reaching temperatures of 300 - 345°F) which is self-sterilizing, destroying potential microbes. Moreover, glycerin contains low available moisture and has inherent antimicrobial properties as a concentrated solution.

**Shelf Life**

We expect the shelf life of Superol NK Glycerin 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. No specific data has been collected for the shelf life of opened containers of glycerin. Since glycerin is hygroscopic, it can be expected that moisture content would increase upon extended exposure to air.

**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