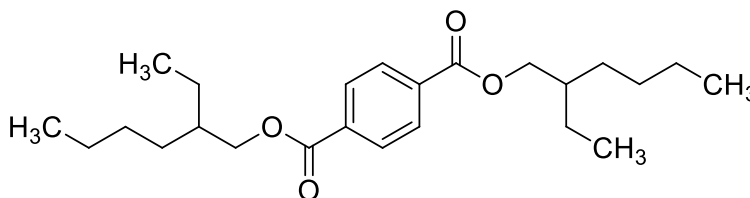


Technical Data Sheet

DOTP

- **Name:** Dioctyl Terephthalate
- **Molar weight:** 360.6



Properties	
Appearance	Clear Colorless liquid
Density at 20 °C	0.981-0.985 (g/cm ³)
Purity (GC)	> 99 %
Flash point	190 °C
Viscosity at 25 °C	60-65 cP
Acidity	< 0.1 (mg KOH/g)
Moisture content	< 0.05 %
Free Alcohol	< 0.001 %

Description

Dioctyl terephthalate (DOTP) is a non-phthalate plasticizer derived from the esterification reaction. It exhibits a clear, colorless liquid appearance and demonstrates insolubility in water. DOTP serves as a crucial plasticizer for polyvinyl chloride (PVC), offering advantages over low-molecular-weight and ortho-phthalate plasticizers due to its reduced toxicity profile. Furthermore, DOTP exhibits compatibility with both homopolymeric and copolymeric vinyl resins. Its primary application lies in vinyl resin plasticization, where it imparts desirable processing characteristics and ensures

low-temperature flexibility and volatility in the final product.

Application

DOTP stands out as a highly effective plasticizer in the synthesis of PVC and its copolymers. Its versatility extends to a broad spectrum of applications, encompassing PVC compounds, flooring materials, roofing membranes, cables, wiring, vinyl wallpaper, food-grade films, and synthetic leather.

Storage and Handling

The storage stability of DOTP is exceptionally high when maintained under appropriate conditions. When stored in sealed, desiccated containers at temperatures below 25°C, DOTP exhibits an extended shelf life

Safety

Prevent eye contact through the use of protective gear, and in case of such contact, promptly rinse with copious flowing water. Exercise caution to avert skin contact. Mitigate the risk of vapor inhalation by ensuring ample ventilation and donning a mask.