

Technical data sheet

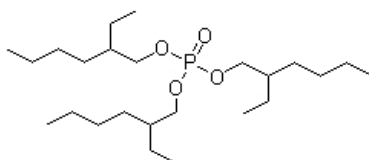
Trioctyl Phosphate(TOP)

■ **CAS No:** 78-42-2

■ **Molecular formula:** C₂₄H₅₁O₄P

■ **Molecular weight:** 434.64 (International Atomic Weight Table,1987)

■ **Molecular structure:**



■ **Properties:** transparent oily liquid, b.p. 216°C (4mmHg) .

■ **Uses:**

(1) It is now chiefly used as a processing solvent, instead of hydroterpineol, for producing hydrogen peroxide by anthraquinone process. It is an ideal solvent in this process, for its low volatility and good extraction distribution coefficient.

(2) It is also a cold-resisting and fire-retarding plasticizer applied in ethylenic and cellulosic resins, synthetic rubbers. The cold resisting property is superior to adipate esters.

■ **Package:** 180kg /iron drum net each, 1000L/IBC drum.

■ **Storage and transportation:**

Stored at dry, shady, ventilated place. Prevented from collision and sunrays, rain-attack during handling and shipping.

Met the high hot and clear fire or contact the oxidizing agent, caused the burning danger.

■ **Quality index:**

Item	Premium grade	Industrial Grade
Appearance	Transparent, oily liquid with no visible impurities	
Content (GC),%	≥99.0	≥99.0
Diocetyl phosphate content (GC),%	≤0.1	≤0.2
Octanol content (GC),%	≤0.1	≤0.15
Surface tension, mN/m (20~25°C)	≥18	≥18
Acid value, mgKOH/g	≤0.1	≤0.2

Colourity (Pt-Co)	≤ 20	≤ 30
Density,g/mL	0.921~0.927	0.921~0.927
Water content,%	≤ 0.1	≤ 0.2
Viscosity (cp)25°Cmm ² /s	≤ 14	≤ 20