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## Technical Data Sheet

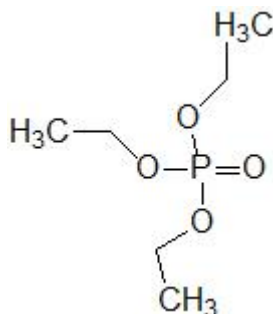
# Triethyl phosphate

### Product description

Product name: Triethyl phosphate

English name: Triethyl phosphate; Ethyl phosphate; Phosphoric acid triethyl ester

Molecular formula: C<sub>6</sub>H<sub>15</sub>O<sub>4</sub>P



Structural formula:

Relative molecular quality: 182.16

CAS No.: 78-40-0

EINECS No.: 201-114-5

ICSC No.: 1730

RETCS No.: TC7900000

HS code: 29199000

### Physics chemical property

It is colorless transparent liquid with pleasant fragrance. It is mixed soluble in water, alcohol and other organic solvent, for example, ether.

It is stable under room temperature.

### Main uses

As high boiling point solvent in nitrocellulose and cellulose acetate;

As stabilizer of insecticide, Bakelite and organic oxide;

As catalyst of xylene isomers, carbodiimide;  
 As fire retardant of polyester resin  
 As plasticizer of cellulose acetate, unsaturated polyester and ethenyl ethanoate polymer;  
 It is widely applied in medical, pesticide, ketene, resin and hydraulic oil fields.

**Quality parameter**

Executive standard: Q/320205GKAM01-2015

Item	Index		
	high purity	superior grade	Anti-foaming grade
APHA ≤	10	10	30
refractive index n20D	1.4050-1.4070		1.4050-1.4060
acid value, mg(KOH)/g ≤	0.02	0.10	0.50
moisture (H2O), w/g ≤	0.05	0.10	-
density(20°C),g/ml	1.068-1.072		1.065-1.073-
content, % ≥	99.90	99.0	99.0
chloride, ppm ≤	5	5	-
ethyl alcohol , ppm ≤	500	-	-

**Packaging**

200kg iron drun, IBC, ISO-TANK

**Storage & Handling**

Should be preserved in seal container in cool and ventilated warehouse without drain-pipe and sewer;  
 Storage temperature should be no higher than 35°C;  
 Separate from food and drink;  
 Keep it away from fire and heat source, oxidizing agent, acids and alkaline;  
 Stability: stable under normal pressure and temperature  
 Transportation: it is non-dangerous goods and should be transported as common chemicals.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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