

Cosutin Industrial CO., Limited

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TEP

(Triethyl Phosphate)

GENERAL DESCRIPTION

Triethyl Phosphate a colorless liquid. It is the triester of ethanol and phosphoric acid and can be called "phosphoric acid, triethyl ester".

Its primary uses are as an industrial catalyst (in acetic anhydride synthesis), a polymer resin modifier, and a plasticizer (e.g. for unsaturated polyesters). In smaller scale it is used as a solvent for e.g. cellulose acetate, flame retardant, an intermediate for pesticides and other chemicals, stabilizer for peroxides, a strength agent for rubber and plastic including vinyl polymers and unsaturated polyesters, etc..

SPECIFICATIONS

Appearance	Colourless and not turbid
Purity:	99.50% Min
Acidity:	0.05 mg KOH/g Max
Water Content:	0.2% Max
Hazen Colour value:	20 Max
Refractive index:	1.405-1.407
Density:	1.068-1.073

PROPERTIES

TEP

CAS Number: 78-40-0

Appearance: Liquefied
Color/Colour: colorless/colourless
Odor/Odour: Not available
Molecular Structure:

Formula: C₆H₁₅O₄P

Molecular Weight: 182.15

EINECS: 201-114-5

Synonyms:

Ethyl phosphate; Triethylphosphate; Tris(ethyl) phosphate; Triethoxyphosphine oxid

Melting point: -55.99 °C (-68.78 °F)
Initial boiling point: 215 °C (419 °F) - lit.
Flash point: 130 °C (266 °F) - closed cup
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper/lower: Upper explosion limit: 10 %(V)
explosive limits: Lower explosion limit: 1.7 %(V)
Vapour pressure: 0.1 hPa (0.1 mmHg) at 20 °C (68 °F)
1.33 hPa (1.00 mmHg) at 40 °C (104 °F)
Vapour density: 6.29 - (Air = 1.0)
Relative density: 1.072 g/cm³ at 25 °C (77 °F)

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Handling method and safety information

TEP is liquid at ordinary temperature. Read the Material Safety Data Sheet (MSDS) before use. Dangerous or hazardous reactions do not take place under normal conditions.

Packaging specifications

200 kg/drum, 1000kg/IBC drum, ISO Tank etc.