

Technical Data Sheet

Eastman™ Triethyl Phosphate

Applications

- Process solvents

Product Description

Eastman™ TEP (Triethyl Phosphate) is a clear, colorless liquid having a mild pleasant odor. TEP is useful as a solvent in many applications, as a plasticizer for tough, fire-resistant plastics, and as an agricultural chemical as an intermediate in preparing tetraethyl pyrophosphate (TEPP).

Typical Properties

Property	Typical Value, Units
General	
Molecular Weight	182.16
Molecular Formula	(C ₂ H ₅ O) ₃ PO
Acidity as H ₃ PO ₄	0.002 %
Form	Clear, colorless liquid
Odor	Mild, cider-like
Color Pt-Co	<10 ppm
Specific Gravity @ 20°C/20°C	1.067-1.072
Boiling Point	209 °C (408 °F)
Refractive Index	1.4037 n(25°C/D)
Evaporation Rate @ 100°C	4.54 (g/1000 cm ²)/h
Viscosity @ 20°C	1.76 cP
@ 71°C	0.82 cP
Flash Point Pensky-Martens Closed Cup	99 °C (210 °F)
Fire Point ^a	141 °C (285 °F)
Flammability Limits in Air, % by Volume	
Lower @ 139°C	1.7 Vol %
Upper @ 163°C	10 Vol %
Water	0.02 wt %
Melting Point	-56 °C
Freezing Point	-56 °C (-69 °F)
Assay	99 wt % min.

^aCleveland Open Cup

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any

particular shipment will conform exactly to the values given.

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