



>>Entry Name: Tris(2-chloroethyl) phosphate, 9Cl, 8Cl

Synonym(s): Fyrol CEF. TCEP. CLP

CAS Registry Number: 115-96-8



Molecular Formula: $\text{C}_6\text{H}_{12}\text{Cl}_3\text{O}_4\text{P}$

Molecular Weight: 285.49

Accurate Mass: 283.953878

Percentage Composition: C 25.24%; H 4.24%; Cl 37.25%; O 22.42%; P 10.85%

Use/Importance: Flame retardant for textiles. Plasticiser

Physical Description: Liq.

Boiling Point: Bp_{25} 214°. Bp_1 146°

Solubility: Insol. H_2O , C_6H_6 ; sol. most other org. solvs.

Density: d_4^{20} 1.42

Refractive Index: n_D^{20} 1.4731

Hazard & Toxicity: Skin and eye irritant. LD_{50} (rat, orl) 1230 mg/kg. Mutagenic props.

Aldrich: 11966-0

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 1497B, (nmr)

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Jones, W.J. *et al.*, *J.C.S.*, 1946, 824, (synth)

Frank, A.W. *et al.*, *J.O.C.*, 1966, **31**, 872, (synth)

Pudovik, A.N. *et al.*, *Zh. Obshch. Khim.*, 1966, **36**, 1454; *J. Gen. Chem. USSR (Engl. Transl.)*, 1966, **36**, 1461, (synth)

Fluck, E. *et al.*, *Z. Anorg. Allg. Chem.*, 1967, **354**, 139, (P-31 nmr)

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