



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

Synonym(s): Tri(2-chloroethyl) phosphite

CAS Registry Number: 140-08-9

$(\text{ClCH}_2\text{CH}_2\text{O})_3\text{P}$

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

Molecular Weight: 269.491

Accurate Mass: 267.958963

Percentage Composition: C 26.74%; H 4.49%; Cl 39.47%; O 17.81%; P 11.49%

Use/Importance: Ligand for Cr, Mo. Intermed. for synth. of vinylphosphonic acid derivs.

Physical Description: Oil

Boiling Point: Bp_2 112-115°

Refractive Index: n_D^{20} 1.4877

Other Data: Isom. on heating→ bis(2-chloroethyl) 2-chloroethylphosphonate

Aldrich: T8540-5

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 911A, (ir)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 863B, (pmr)

Ger. Pat., 1967, 1 244 757; *CA*, **68**, 21521, (synth)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PHO000