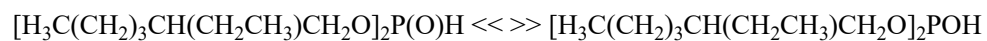




>>Entry Name: Bis(2-ethylhexyl) phosphonate, 9CI

Synonym(s): Bis(2-ethylhexyl) phosphite. Chelex H8

CAS Registry Number: 3658-48-8



Molecular Formula: $\text{C}_{16}\text{H}_{35}\text{O}_3\text{P}$

Molecular Weight: 306.424

Accurate Mass: 306.232382

Percentage Composition: C 62.72%; H 11.51%; O 15.66%; P 10.11%

General Statement: Tautomeric

Use/Importance: Used in extraction of U, Fe, and Mo from acid solns.

Physical Description: Liq.

Boiling Point: Bp_1 148-151°

Density: d_{25}^{25} 0.93

Refractive Index: n_D^{25} 1.4420

Hazard & Toxicity: Eye irritant. Low acute oral toxicity

Aldrich: 24895-9

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1472B, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 913D, (ir)

Walsh, E.N., *J.A.C.S.*, 1959, **81**, 3023, (synth)

U.K. Pat., 1970, 1 298 156; *CA*, **78**, 83841, (manuf)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, BJQ709