



>>Entry Name: Tris(2-ethylhexyl) phosphate

Synonym(s): Flexol TOF

CAS Registry Number: 78-42-2

$[H_3CCH_2CH_2CH_2CH(CH_2CH_3)CH_2O]_3P=O$

Molecular Formula: $C_{24}H_{51}O_4P$

Molecular Weight: 434.638

Accurate Mass: 434.352497

Percentage Composition: C 66.32%; H 11.83%; O 14.72%; P 7.13%

Use/Importance: Plasticiser, low acute toxicity

Physical Description: Liq.

Boiling Point: Bp_5 210-220°

Density: d_4^{20} 0.99

Refractive Index: n_D^{20} 1.4452

Other Data: Doubtless a mixt. of diastereoisomers

Hazard & Toxicity: Eye and skin irritant

Aldrich: 28992-2

Fluka: 93301

Sigma: E2638

References:

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

Smeykel, K. *et al.*, *J. Prakt. Chem.*, 1963, **22**, 186-191, (*synth*)

Frank, A.W. *et al.*, *J.O.C.*, 1966, **31**, 872-875, (*synth*)

Ger. Pat., 1980, 2 944 778; *CA*, **93**, 167882, (*synth*)

LeBel, G.L. *et al.*, *J. Assoc. Off. Anal. Chem.*, 1983, **66**, 691-699, (*gc-ms, anal*)

Rozen, A.M. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1984, **274**, 1139-1144; *Dokl. Chem. (Engl. Transl.)*, 1984, **274**, 177, (*props*)

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