



>>Entry Name: **Mono(2-ethylhexyl) phosphate**, 9Cl, 8Cl

Synonym(s): 2-Ethylhexyl dihydrogen phosphate. 2-Ethylhexyl phosphoric acid. Phosphoric acid mono(2-ethylhexyl) ester, 9Cl

CAS Registry Number: 1070-03-7

$\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}_2\text{OP}(\text{O})(\text{OH})_2$

Molecular Formula: $\text{C}_8\text{H}_{19}\text{O}_4\text{P}$

Molecular Weight: 210.209

Accurate Mass: 210.102097

Percentage Composition: C 45.71%; H 9.11%; O 30.44%; P 14.73%

Use/Importance: Extractant for many metals incl. U, Mo, rare earths, and transplutonium

Physical Description: Liq.

Solubility: Sol. H_2O , C_6H_6

References:

Levin, I.S. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1961, **139**, 158; *CA*, **56**, 11285, (*use*)

Kletenik, Y.B. *et al.*, *Zh. Anal. Khim.*, 1969, **24**, 707, (*use*)

Kuzin, I.A. *et al.*, *Zh. Anal. Khim.*, 1969, **24**, 800; *CA*, **71**, 56464, (*purifn*)

Lee, Te.-Wei. *et al.*, *Sep. Sci. Technol.*, 1981, **16**, 943, (*purifn, use*)