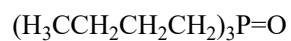




>>Entry Name: Tributylphosphine oxide, 9CI, 8CI

Synonym(s): Butyphos

CAS Registry Number: 814-29-9



Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{OP}$

Molecular Weight: 218.318

Accurate Mass: 218.179952

Percentage Composition: C 66.02%; H 12.46%; O 7.33%; P 14.19%

Use/Importance: Ligand for metals of Groups IIIA, IVA, IIIB, VB, VIB, and VIII, as well as rare earth metals. Used as soln. in 1,2-dichloroethane for extraction separation of Ti

Physical Description: Hygroscopic needles

Melting Point: Mp 68-69°

Boiling Point: Bp 300°. Bp₂ 134-135°. Bp_{0.2} 125-126°

Solubility: Sol. 1,2-dichloroethane

pKa Value: pK_a 8.75 (MeNO₂)

Other Data: Forms H₂O clathrate complexes

Hazard & Toxicity: Eye irritant

Aldrich: 17276-6

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