



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

CAS Registry Number: 597-50-2

$\text{Et}_3\text{P}=\text{O}$

Molecular Formula: $\text{C}_6\text{H}_{15}\text{OP}$

Molecular Weight: 134.158

Accurate Mass: 134.086052

Percentage Composition: C 53.72%; H 11.27%; O 11.93%; P 23.09%

Use/Importance: V. hygroscopic cryst.

Melting Point: Mp 47°

Boiling Point: Bp 238-240°. Bp₁₈ 124.5-124.7°. Bp₅ 110-112°

Rare Chemicals Library: S83568-4

References:

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Cuddy, B.D. *et al.*, *Tet. Lett.*, 1971, 4433, (*pmr*)

Gray, G.A. *et al.*, *J.O.C.*, 1972, **37**, 3458, (*cmr*)

Raevskii, O.A. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 2491; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1973, 2432, (*struct*)

Skvortsov, N.K. *et al.*, *Zh. Obshch. Khim.*, 1973, **43**, 981; 1976, **46**, 521; *J. Gen. Chem. USSR (Engl. Transl.)*, 1973, **43**, 976; 1976, **46**, 518, (*pmr, P-31 nmr*)

Mayer, U. *et al.*, *Monatsh. Chem.*, 1975, **106**, 1235, (*synth, P-31 nmr*)

Gerken, T.A. *et al.*, *J. Magn. Reson.*, 1976, **24**, 155, (*cmr, P-31 nmr, pmr*)

Kenyon, G.L. *et al.*, *J.O.C.*, 1976, **41**, 2417, (*ms*)

Symons, M.C.R., *Pure Appl. Chem.*, 1986, **58**, 1121, (*ir, P-31 nmr*)

Keck, H. *et al.*, *Org. Mass Spectrom.*, 1988, **23**, 594, (*ms*)

Gusarova, N.K. *et al.*, *Zh. Obshch. Khim.*, 1990, **60**, 828; *J. Gen. Chem. USSR (Engl. Transl.)*, 1990, **60**, 725, (*synth, pmr, P-31 nmr*)