



>>Entry Name: Tetraphenoxysilane

Synonym(s): Silicic acid tetraphenyl ester, 11Cl, 9Cl. Phenyl silicate. Tetraphenyl silicate

CAS Registry Number: 1174-72-7

Si(OPh)<sub>4</sub> (*T<sub>d</sub>*)

Molecular Formula: C<sub>24</sub>H<sub>20</sub>O<sub>4</sub>Si

Molecular Weight: 400.505

Accurate Mass: 400.113087

Percentage Composition: C 71.98%; H 5.03%; O 15.98%; Si 7.01%

Source/Synthesis: Synth. from phenol and SiCl<sub>4</sub>

Physical Description: Cryst.

Melting Point: Mp 48°

Boiling Point: Bp 418°. Bp<sub>1</sub> 236-237°

Density: d<sub>4</sub><sup>20</sup> 1.14

Rare Chemicals Library: S58566-1

References:

Voronkov, M.G. *et al.*, *Zh. Obshch. Khim.*, 1957, **27**, 325, (*synth*)

Emblem, H.G. *et al.*, *Ind. Chem.*, 1964, **39**, 576; 641; *CA*, **60**, 10532, (*synth*)

Engelhardt, G. *et al.*, *Org. Magn. Reson.*, 1973, **5**, 561, (*pmr*)

Tamas, J. *et al.*, *Acta Chim. Acad. Sci. Hung.*, 1975, **86**, 439; *CA*, **84**, 58080, (*ms*)

Kozlova, N.V. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1975, **220**, 869, (*ir, Raman*)

Schrami, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1981, **46**, 377, (*Si-29 nmr*)

Narula, S.P. *et al.*, *Indian J. Chem., Sect. A*, 1983, **22**, 557, (*synth, ir, pmr*)