



>>Entry Name: Tetraphenylphosphine imide

Synonym(s): *N*-(Triphenylphosphoranylidene)benzenamine, 9Cl

CAS Registry Number: 2325-27-1

Ph₃P=NPh

Molecular Formula: C₂₄H₂₀NP

Molecular Weight: 353.402

Accurate Mass: 353.133336

Percentage Composition: C 81.57%; H 5.70%; N 3.96%; P 8.76%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 131-132°

pKa Value: pK_{a1} 7.66 (95% EtOH aq.) pK_{a1} 9.78 (H₂O) pK_{a1} 16.74 (MeNO₂)

Aldrich: 32487-6

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 1681C, (*nmr*)

Horner, L. *et al.*, *Annalen*, 1959, **627**, 142, (*synth, uv, ir*)

Reddy, G.S. *et al.*, *J.O.C.*, 1963, **28**, 1822, (*P nmr*)

Schuster, P., *Monatsh. Chem.*, 1967, **98**, 1310, (*struct*)

Wiegräbe, W. *et al.*, *Chem. Ber.*, 1968, **101**, 1414, (*synth, ir*)

Tökés, L. *et al.*, *Org. Mass Spectrom.*, 1970, **4**, 59, (*ms*)