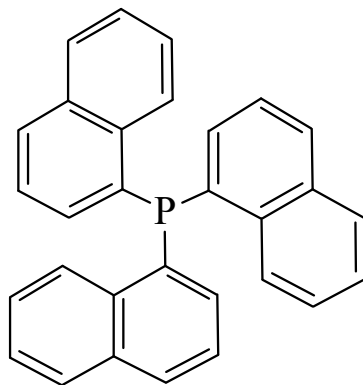




>>Entry Name: Tri-1-naphthalenylphosphine, 9Cl

Synonym(s): Tri-1-naphthylphosphine



CAS Registry Number: 3411-48-1

Related CAS Registry Numbers(s): 29725-09-5

Molecular Formula: C₃₀H₂₁P

Molecular Weight: 412.47

Accurate Mass: 412.138087

Percentage Composition: C 87.36%; H 5.13%; P 7.51%

Use/Importance: Ligand for Ni

Physical Description: Cryst. (C₆H₆/Et₂O, EtOH or dioxan)

Melting Point: Mp 263-265°. Mp 278-280°

Other Data: Forms complexes with CHCl₃ and CCl₄

>>Derivative: Oxide

CAS Registry Number: 28402-02-0

Molecular Formula: C₃₀H₂₁OP

Molecular Weight: 428.469

Accurate Mass: 428.133002

Percentage Composition: C 84.10%; H 4.94%; O 3.73%; P 7.23%

Physical Description: Solid

Melting Point: Mp 341-343°

Other Data: Forms a monohydrate

>>Derivative: Sulfide

CAS Registry Number: 3411-49-2

Molecular Formula: C₃₀H₂₁PS

Molecular Weight: 444.536

Accurate Mass: 444.110157

Percentage Composition: C 81.06%; H 4.76%; P 6.97%; S 7.21%

Physical Description: Cryst. (EtOH or butanol)

Melting Point: Mp 255.5-256.5°

References:

Anschütz, L. *et al.*, *Annalen*, 1939, **542**, 14, (*oxide*)

Mikhailov, B.M. *et al.*, *Zh. Obshch. Khim.*, 1952, **22**, 792; *CA*, **47**, 5388, (*synth, oxide*)

Tefteller, W. *et al.*, *J. Chem. Eng. Data*, 1965, **10**, 301, (*synth, sulfide*)

Ziegler, C.B. *et al.*, *J.O.C.*, 1978, **43**, 2941, (*synth, P-31 nmr, props*)