>>**Entry Name: Dibromobis(triphenylphosphine)nickel(*II*),** 9CI
Synonym(s): Bis(triphenylphosphine)nickel(*II*) dibromide

CAS Registry Number: 14126-37-5
Related CAS Registry Numbers(s): 36673-36-6
$NiBr_2(PPh_3)_2$ (C_{2v})

Molecular Formula: $C_{36}H_{30}Br_2NiP_2$
Molecular Weight: 743.078
Accurate Mass: 739.994292
Percentage Composition: C 58.19%; H 4.07%; Br 21.51%; Ni 7.90%; P 8.34%
General Statement: Pseudo-tetrahedral struct.
Use/Importance: Catalyst for hydrogenation of unsatd. molecules, oligomerisation of terminal alkynes, dehalogenation reactions, butadiene dimerisation, and cross-coupling reactions
Physical Description: Olive-green cryst.
Melting Point: Mp 222-225°
Solubility: Sol. Me_2CO
Other Data: $\mu_{eff} = 3.27\mu_B$ (300K). Dipole moment 5.9D

Aldrich: 33170-8

References:

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Cotton, F.A., *J.A.C.S.*, 1961, **83**, 344, *(synth, uv-vis, magnetism, reactions)*
Jarvis, J.A.J. *et al.*, *J.C.S.(A)*, 1968, 1473, *(cryst struct)*
Winzer, A. *et al.*, *Z. Chem.*, 1970, **10**, 438, *(synth)*
Que, L. *et al.*, *Inorg. Chem.*, 1973, **12**, 156, *(uv)*
Matienzo, J. *et al.*, *Inorg. Chem.*, 1973, **12**, 2762
Allen, E.A. *et al.*, *Spectrochim. Acta A*, 1974, **30**, 1219, *(ir)*