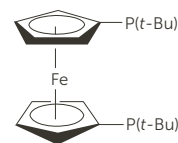


1,1'-Bis(di-*tert*-butylphosphino)ferrocene

Product number: 1067 | Alternative name: di-tbpf, D-*t*-BPF | CAS number: 84680-95-5 | C₂₈H₄₉FeP₂ | Molecular weight: 503.48

1,1'-Bis(di-*tert*-butylphosphino)ferrocene is relatively air stable.
Solutions of the ligand oxidize slowly upon standing in air.
Ligand can be weighed in air.¹

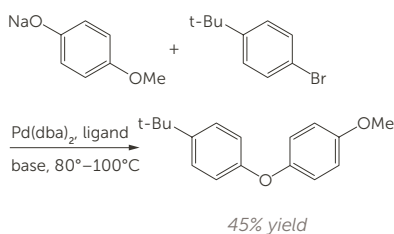


AMINATION OF ARYL HALIDES AND TOSYLATES¹

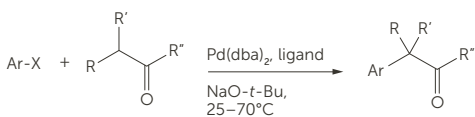


X = Cl, Br, I, OTs
Y = 4-Me, 4-Bu, 2-Me, 4-CN, 2,4-Me₂
HNRR' = H₂NPh, H₂NBu, H₂N-hexyl, piperidine, morpholine
49 – 99% yield

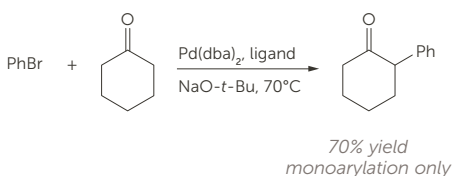
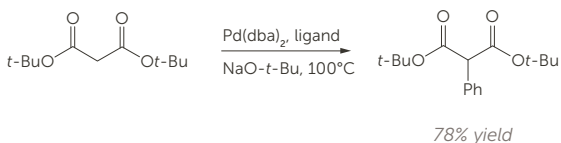
ETHERIFICATION OF UNACTIVATED ARYL HALIDES²



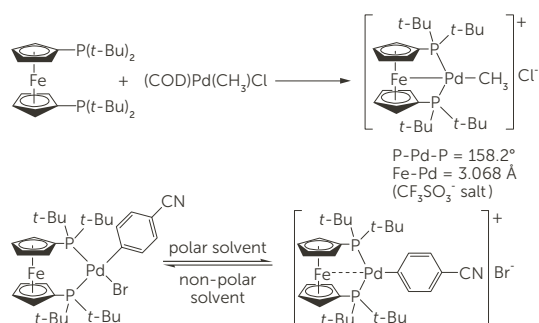
α-ARYLATION OF KETONES AND MALONATES³



X = Cl and Br
Ar = ary
R = H, Me
R' = H, Me
R'' = Ph, *i*-Pr
70 – 99% yield



UNIQUE METAL-LIGAND CONFIGURATIONS⁴⁻⁶



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