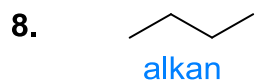
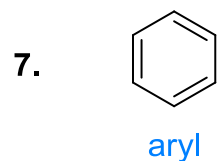
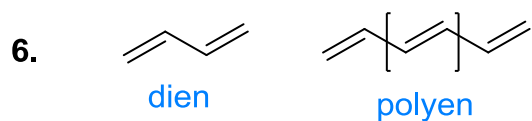
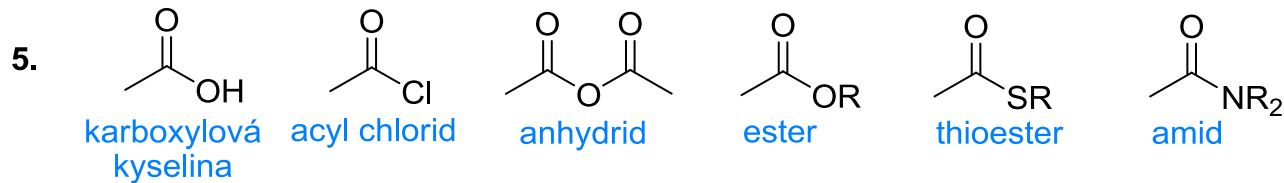
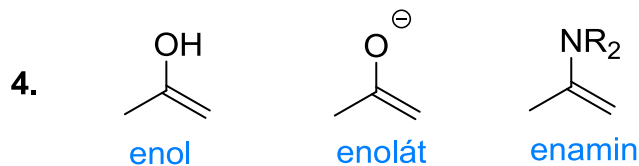
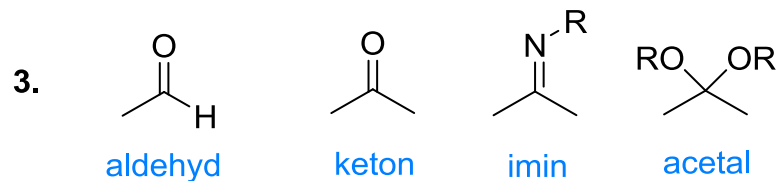
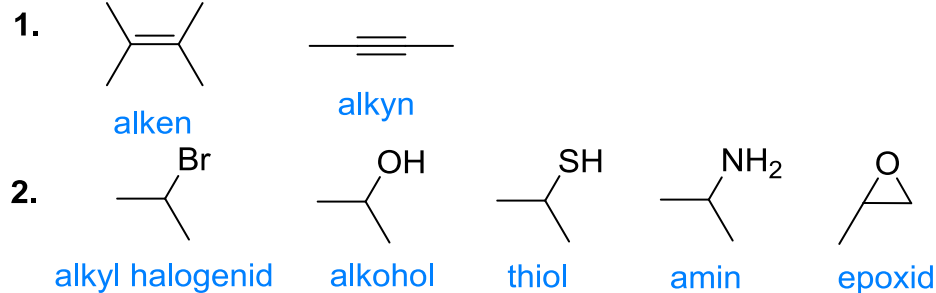




8. Alkany



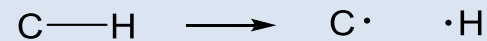


Q: funkční skupina ?

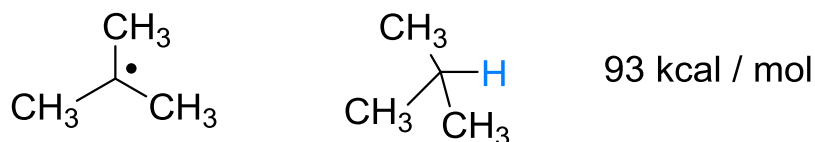
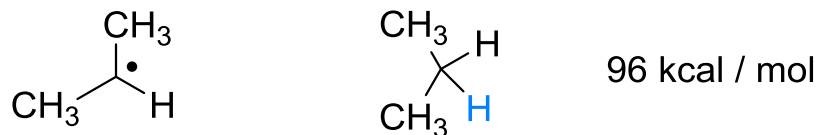
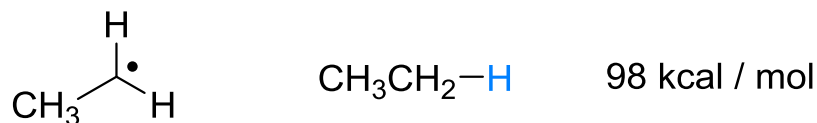
Reaktivitu organických molekul lze často odhadnout na základě přítomných funkčních skupin.



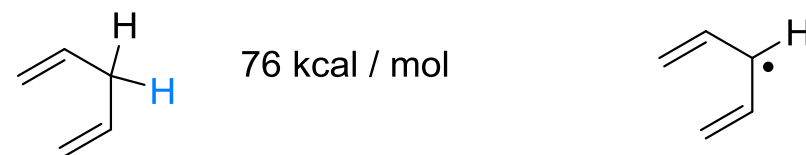
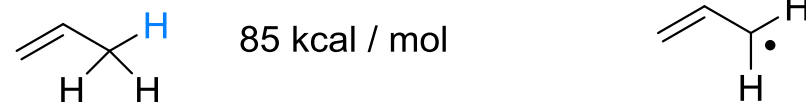
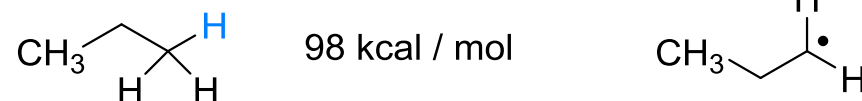
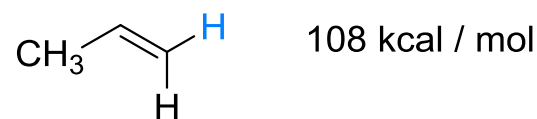
- Abstrakce H radikálu – vznik alkyl radikálu



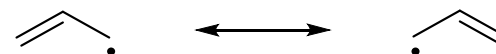
Korelace mezi disociační energií C–H vazby a stabilitou vzniklého alkyl radikálu



*analogie s karbokationty
(rozdíl rel. stability je menší)*

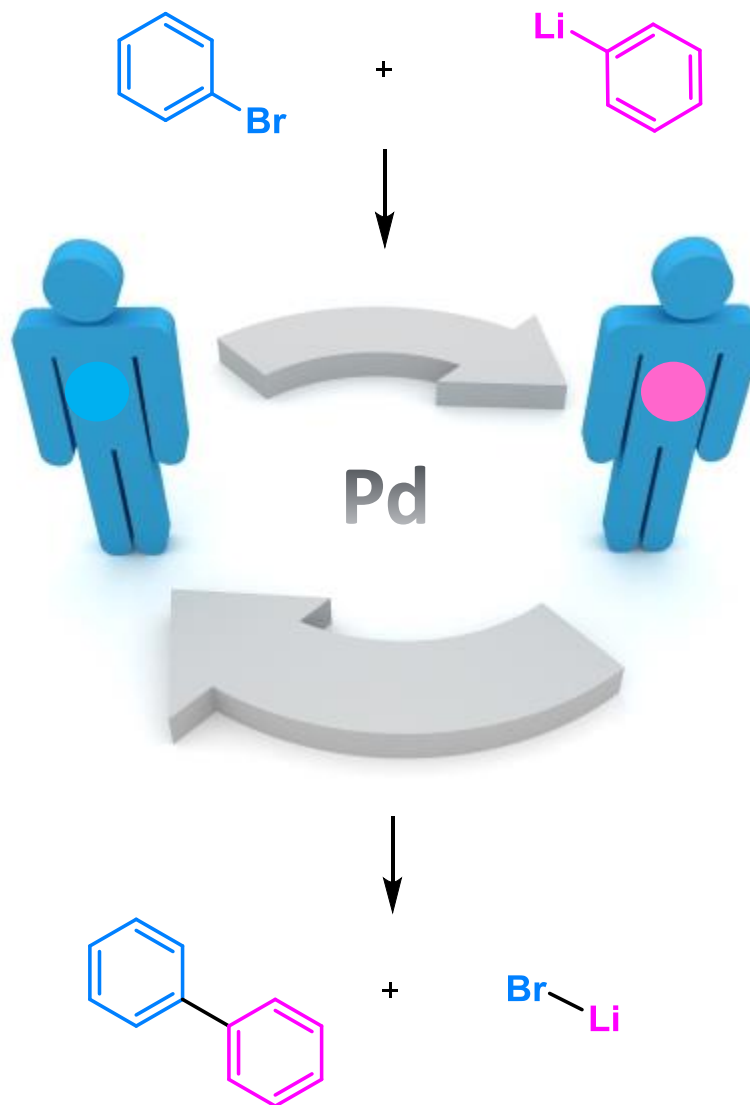


delokalizace allylického radikálu



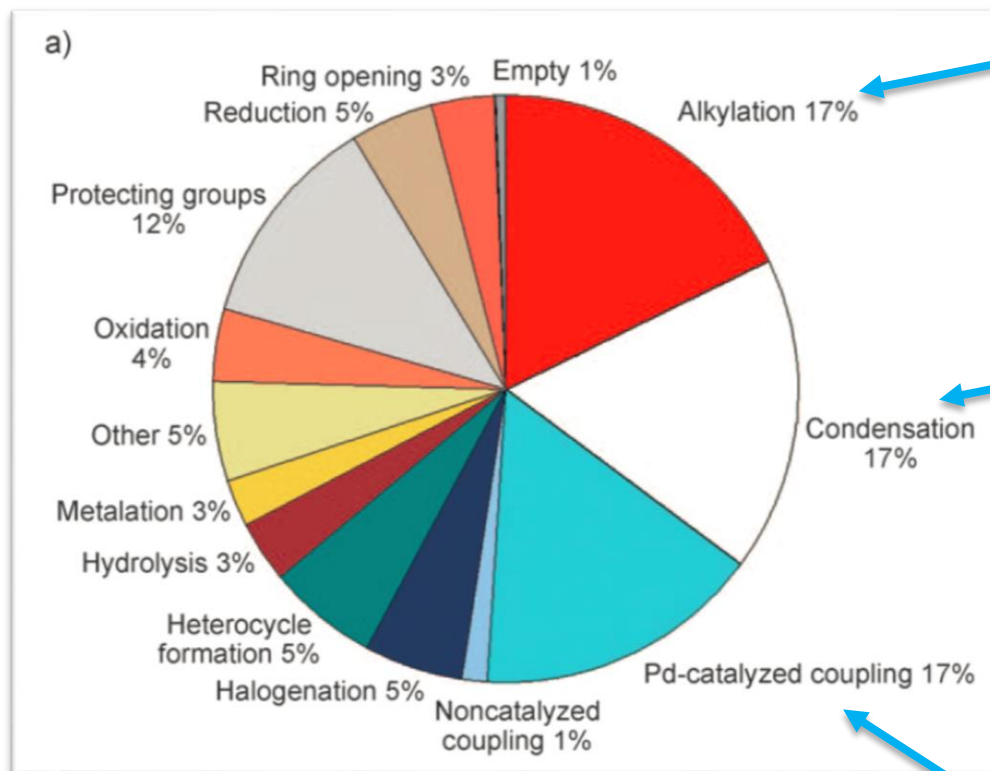


9. Organokovové sloučeniny





- Typy reakcí používané v medicíně (vývoj a příprava léčiv)

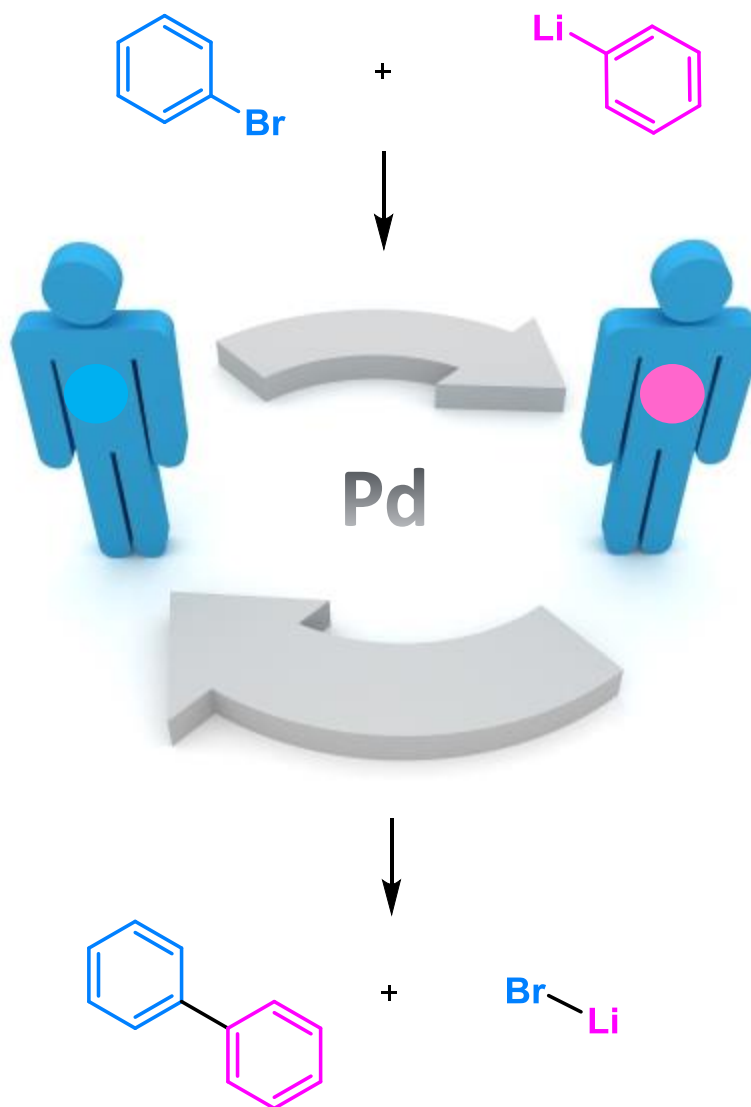


např. O- a N-methylace

např. tvorba amidické vazby

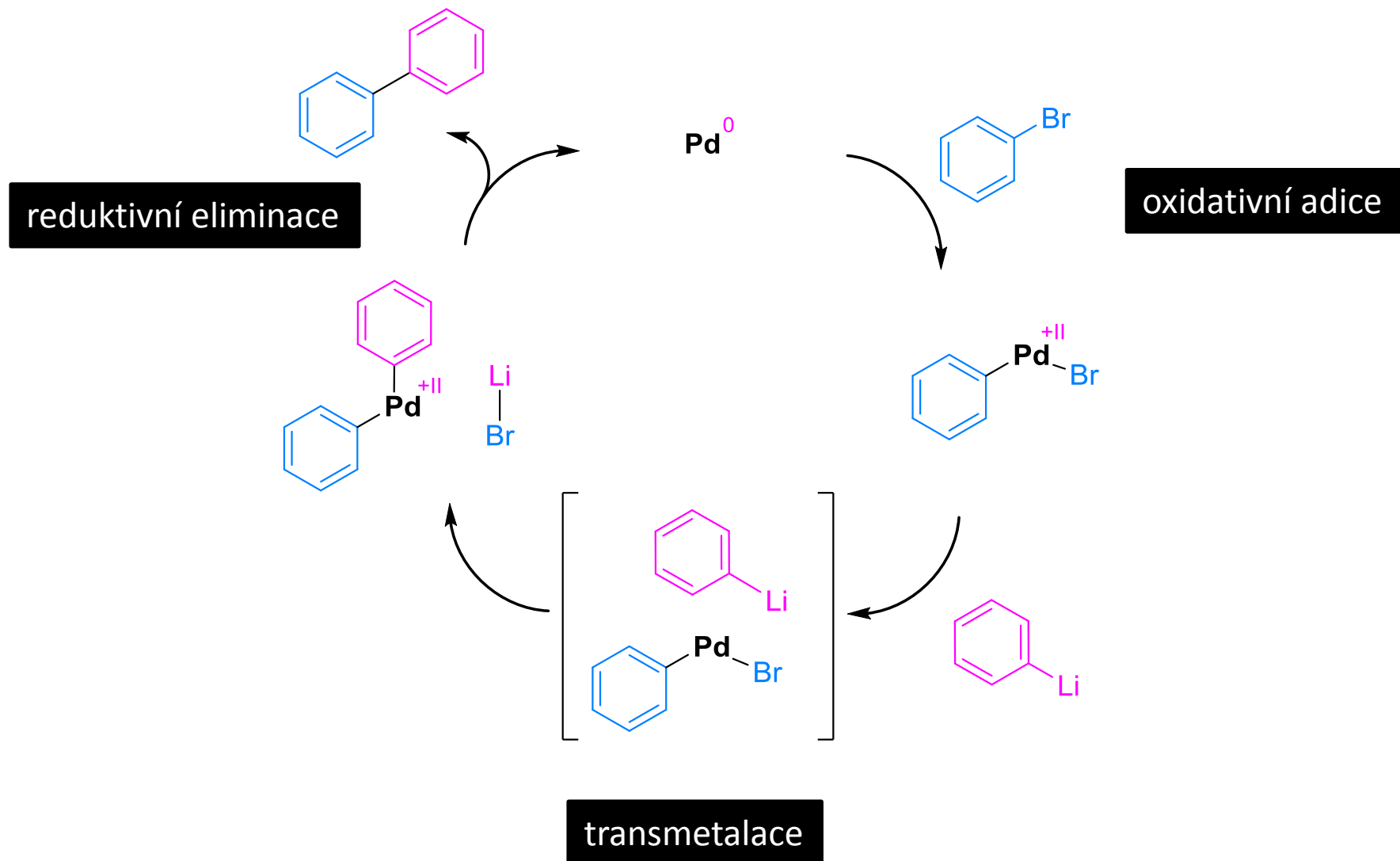
T. W. J. Cooper et al. *Angew. Chem. Int. Ed. Engl.* 2010, 49, 8082.

Nobelova cena za chemii, 2010
(R. F. Heck, E. Negishi, A. Suzuki)



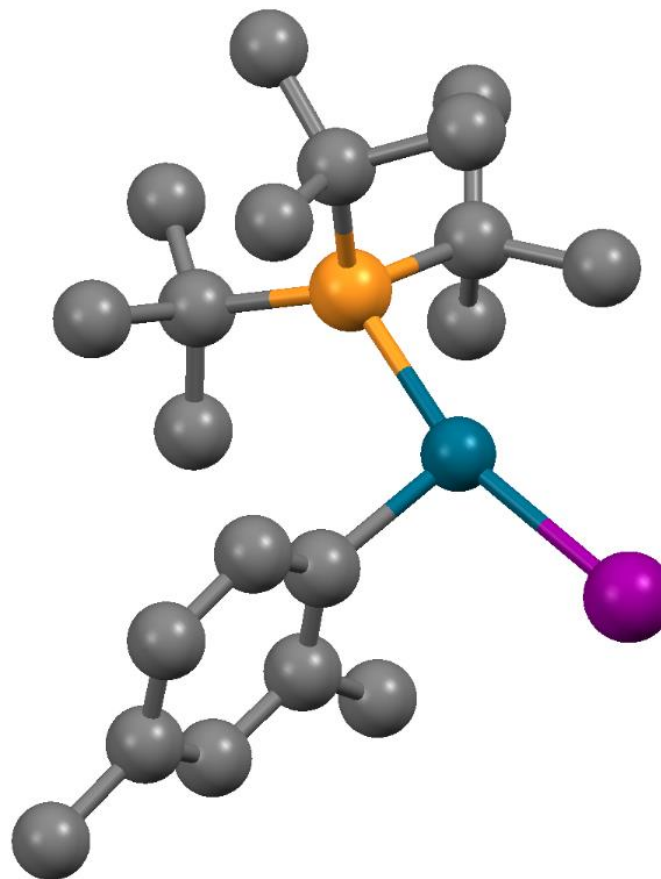
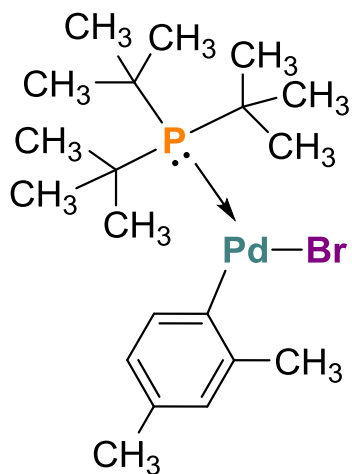


- Katalytický cyklus palladia: základní intermediáty a terminologie



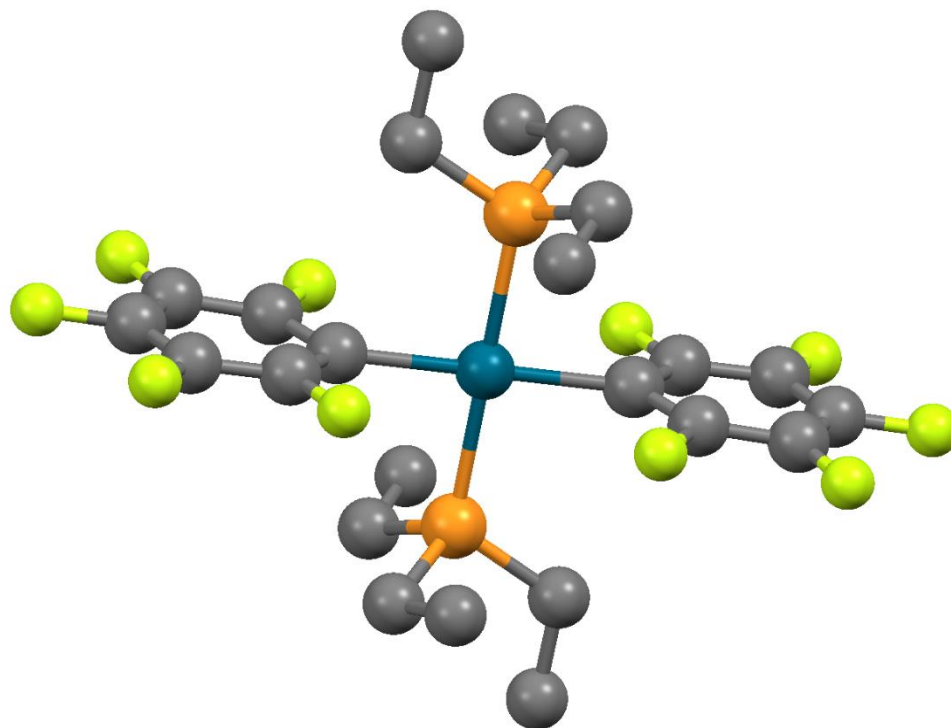
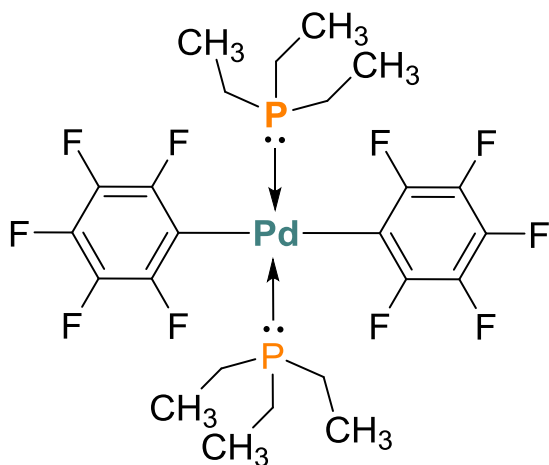


Krystalová struktura produktu oxidativní adice





Krystalová struktura produktu transmetalace



Nishihara, Y. et al. Chem. Commun. 2004, 2, 192.