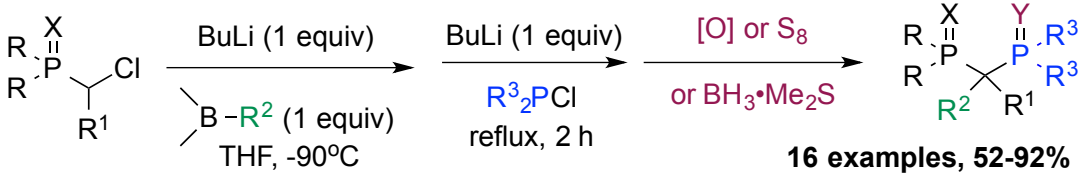
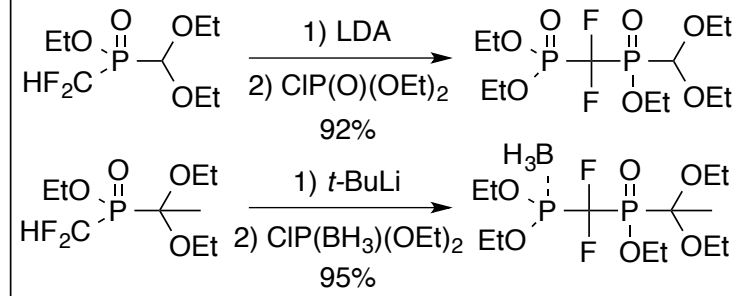


16 examples, 52-92%

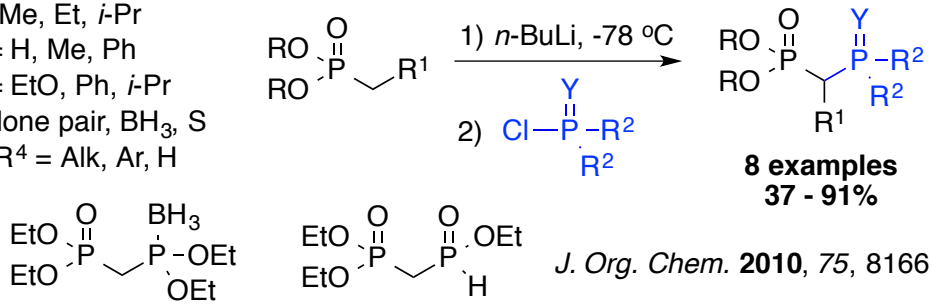
X = O, S, BH_3; R = EtO, Ph;
R^1 = Me, Ph, H; R^2 = Alk; R^3 = EtO, Ph

Tetrahedron Lett. **2008**, *49*, 5909
J. Org. Chem. **2009**, *74*, 3758



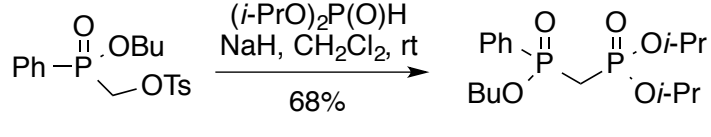
Tetrahedron **2010**, *66*, 4434

R = Me, Et, *i*-Pr
R^1 = H, Me, Ph
R^2 = EtO, Ph, *i*-Pr
Y = lone pair, BH_3, S
R^3, R^4 = Alk, Ar, H

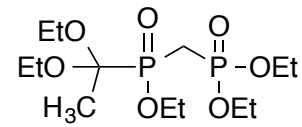


8 examples
37 - 91%

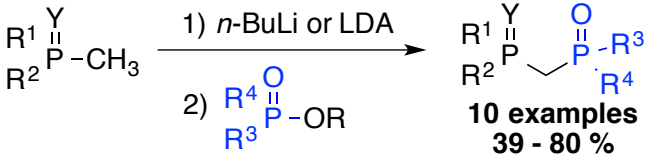
J. Org. Chem. **2010**, *75*, 8166



Org. Lett. **2012**, *14*, 3404

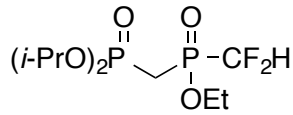


J. Org. Chem. **2007**, *72*, 2851

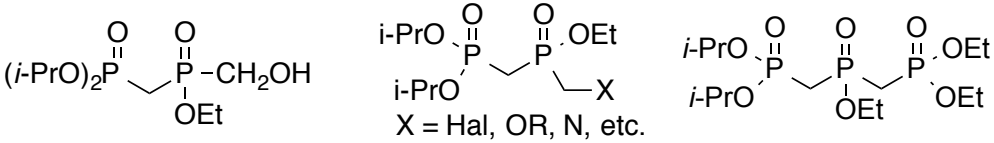


10 examples
39 - 80 %

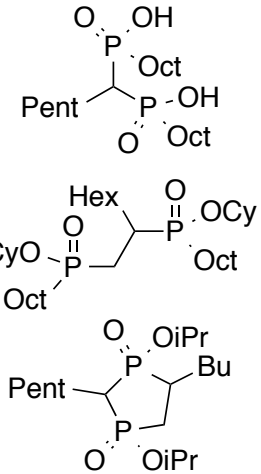
Y = O, BH_3
R = Alk
R^1 = OAlk, Ph,
R^2 = OAlk, Ph, $MeC(OEt)_2$
R^3 = OAlk, Ph
R^4 = Ph, H, Alk, etc.



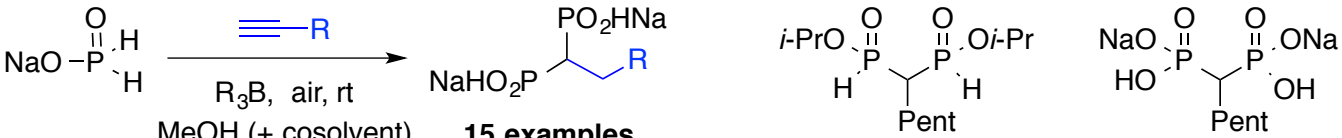
Tetrahedron Lett. **2013**, *54*, 817



Org. Biomol. Chem. **2015**, *13*, 825



Adv. Synth. Catal. **2014**, *356*, 1199



15 examples
42-87%

Org. Lett. **2005**, *7*, 5909