MCl$_3$ or
MCl$_3$·THF$_3$   +   3 Li  [diagram]

THF / r.t.
− 3 LiCl

**1**: R = $^i$Pr
**2**: R = Cy

**5**: M = Y, R = $^i$Pr, 25% yield
**6**: M = Cr, R = $^i$Pr, 52% yield
**7**: M = Fe, R = $^i$Pr, 53% yield
**8**: M = Y, R = Cy, 22% yield
**9**: M = Ti, R = Cy, 69% yield
**10**: M = V, R = Cy, 45% yield
**11**: M = Cr, R = Cy, 69% yield
**12**: M = Fe, R = Cy, 45% yield