

27- 045

I
 III
IV

a R¹: -Si(iPr)₃ 77%
 b R¹: -SiMe₂-tBu 77%
 77%
4%
7%

V
 VI

A): [RhCl(cod)]₂/PPh₃ (1:2) (cat.), o-xylene, 160°C
 a R²: -H 99%
b R²: -Me 88%

VII
 VIII

2 equiv. (IIa)
 [RhCl(cod)]₂/PPh₃ (1:2) (cat.)
 mesitylene, 160°C
 a R³, R⁴: -H 80%
b R³-R⁴: 84%

IX
 X 74%

3 equiv. (IIa)
 [RhCl(cod)]₂/P(4-Cl-C₆H₄)₃ (1:2) (cat.)
 o-xylene, 160°C
 P(4-Cl-C₆H₄)₃:

