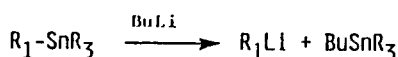
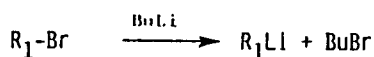
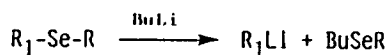
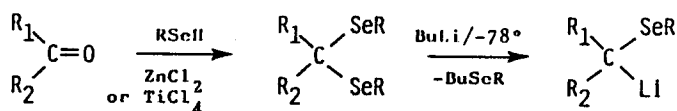
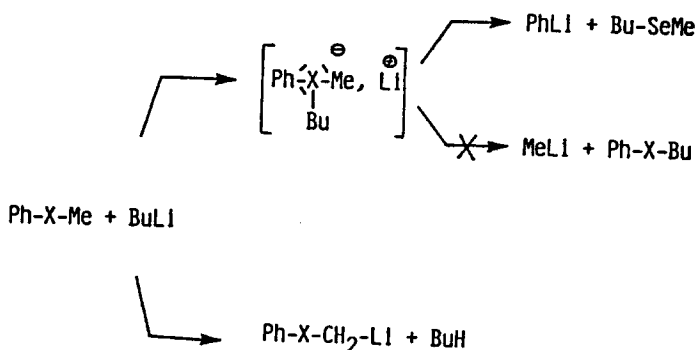
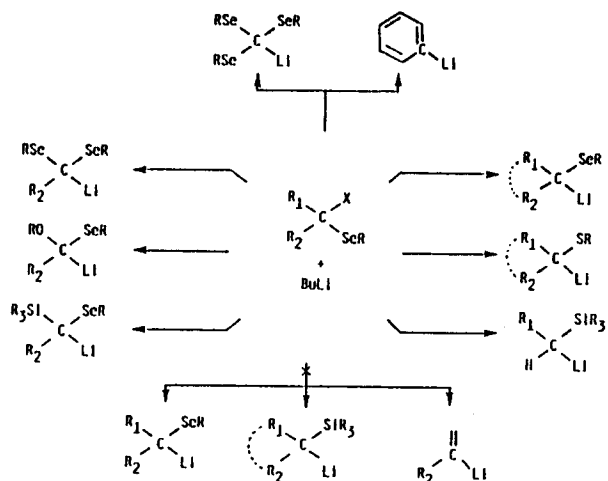


Et_2O , 36° , 19h	28%
THF, 20° , 0.8h	93%
THF, -50° , 1.8h	89%

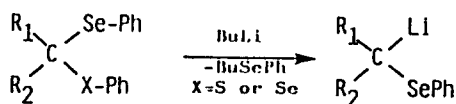
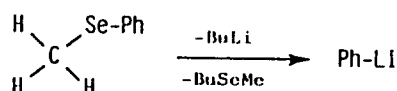
Gilman (1949), Dumont (1974), Clarenbeau (1986)

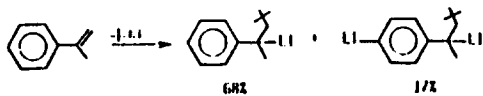


- Leads to the organometallic possessing the more stabilized carbanion
- Advantages:
 - availability and stability of the starting material
 - homogeneous reaction taking place at low temperature
 - no reaction between the products formed
 - no competing metallation

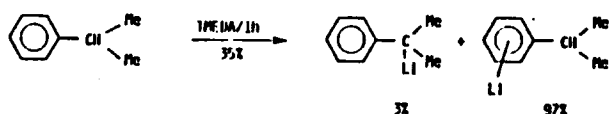
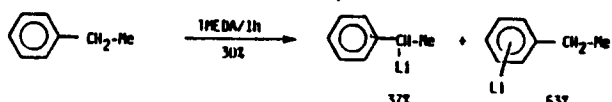
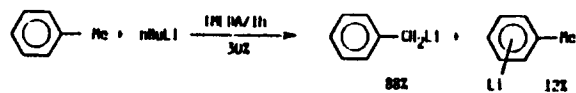
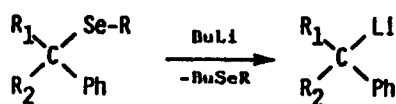


R_1, R_2 H, H $\text{R}=\text{Ph, Me}$
 H, alkyl THF better than ether
 alkyl, alkyl s-BuLi better than n-BuLi
 cycloalkyl t-BuLi

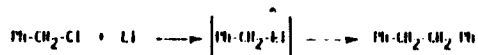




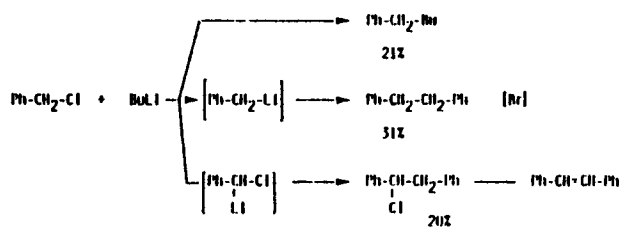
G. Franzel, H.J. Gerke, A. Kaye, R.M. Estes
J. Organometal. Chem. **192**, 249 (1980)



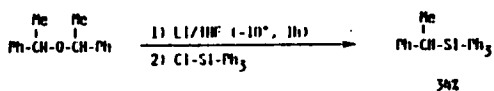
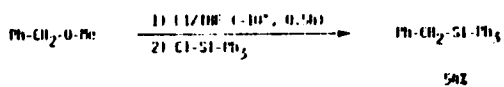
C.D. Broadben, J. Org. Chem. **35**, 11, (1970)
H. Schläpfer J. Organometal. Chem. **2**, 9 (1967)



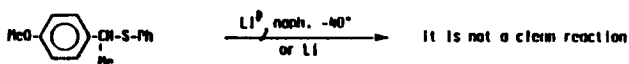
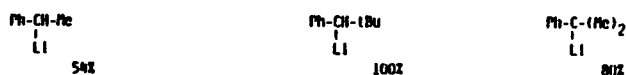
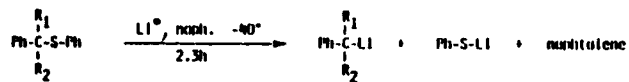
K. Ziegler, E. Herzog Chem. Ber. **64**, 448 (1931)



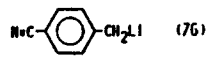
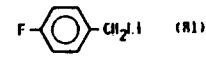
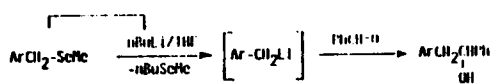
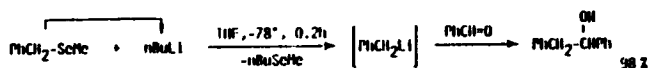
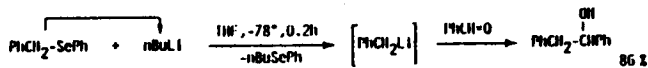
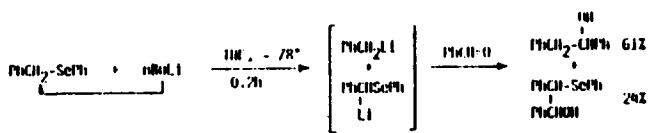
M. Gilman, H. Nudler, J. Amer. Chem. Soc. **66**, 1515 (1944)
R.F. Hoeg, D.L. Lusk, J. Amer. Chem. Soc. **86**, 928 (1964)
R.F. Hoeg, D.L. Lusk, A.L. Crumblin, J. Amer. Chem. Soc. **87**, 4147 (1965)



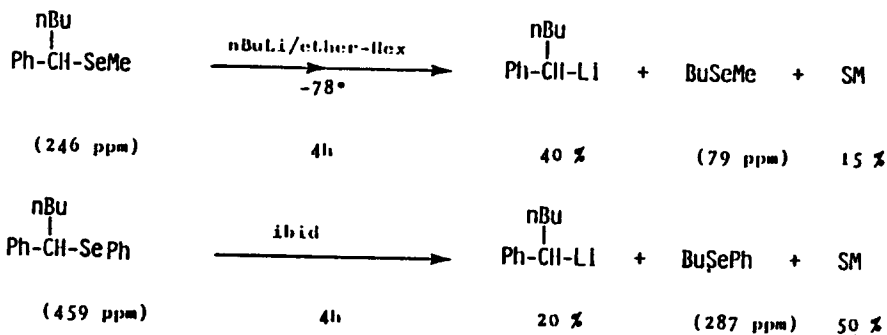
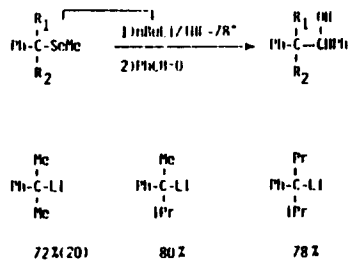
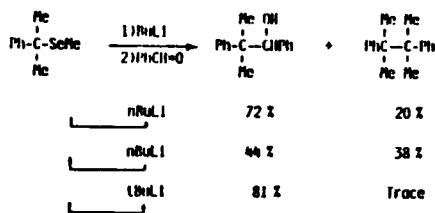
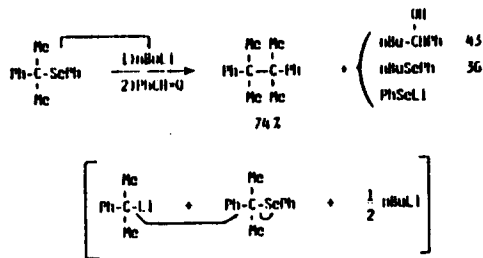
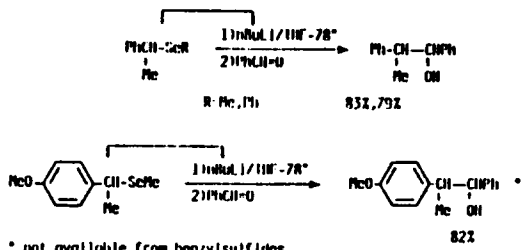
M. Gilman, H.A.Mc. Birch J. Org. Chem. **26**, 3723 (1961)
M. Gilman, G.L. Schvechke J. Org. Chem. **27**, 4259 (1962)



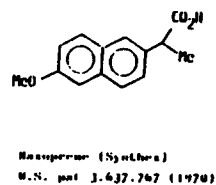
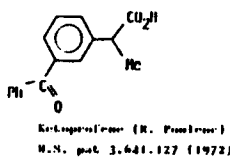
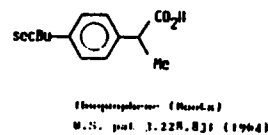
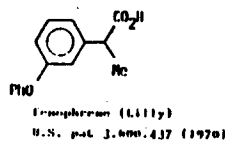
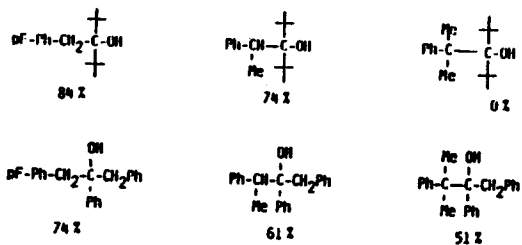
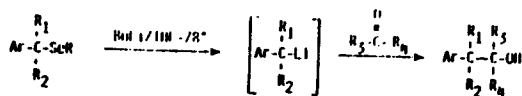
C.G. Serotian, N. Micha Serotian J. Org. Chem. **44**, 713 (1979)

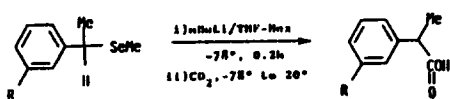
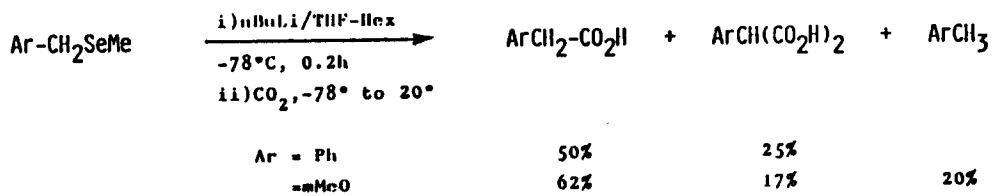


* not available from benzylethers



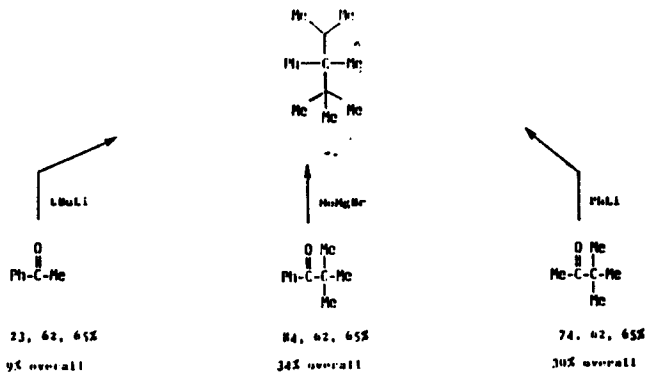
Barbeaux 1986



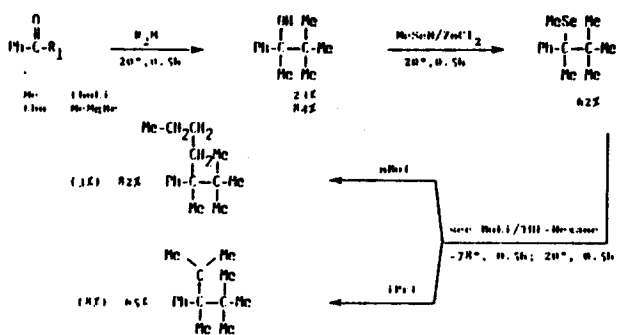
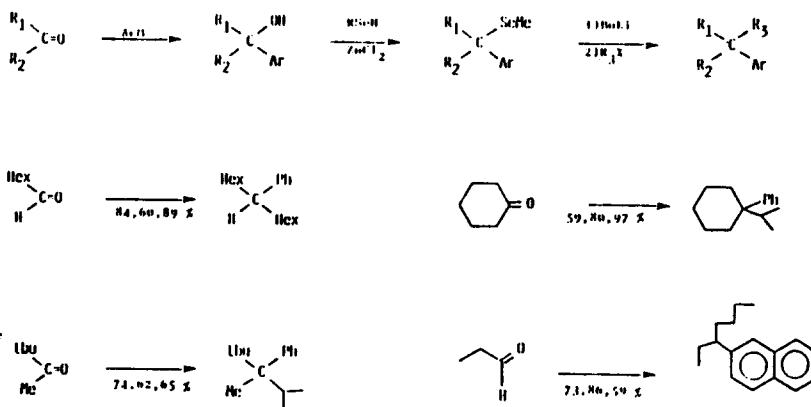


Ph. Barboza
R: H, 10%, 0%

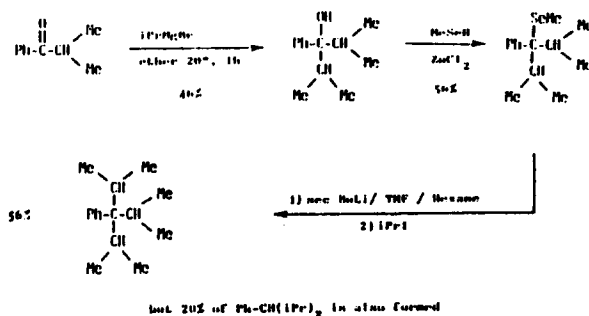
82, 80,



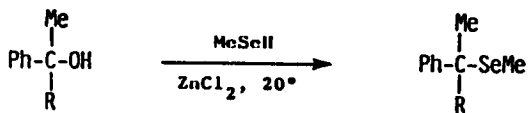
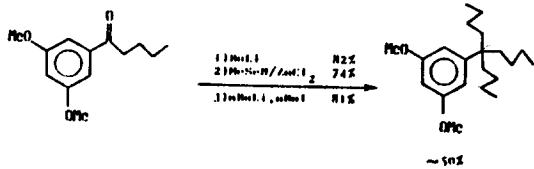
M. Clarendon



M. Clarendon, Ph. Barboza

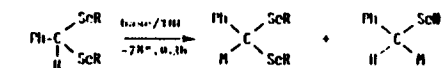


M. Clarendon, Ph. Barboza



R	Me	0.5h	80%
	iPr	0.2h	74%
	tBu	2.5h	72%

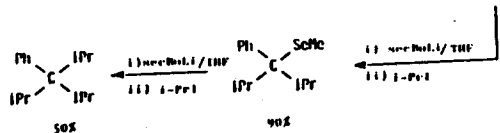
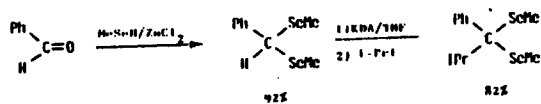
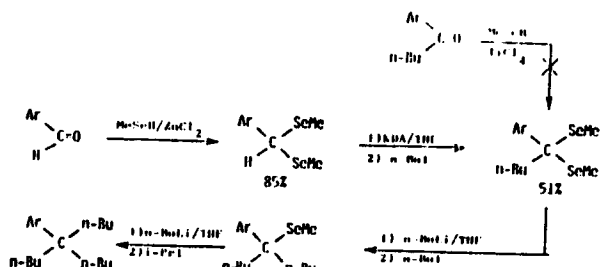
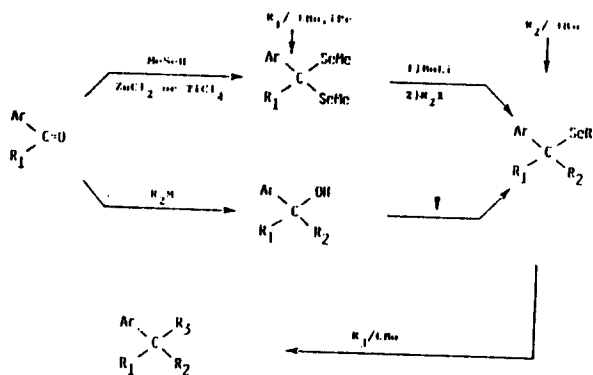
M. Clarambeau 1984



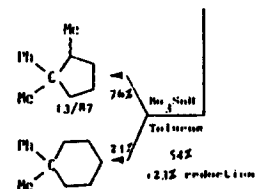
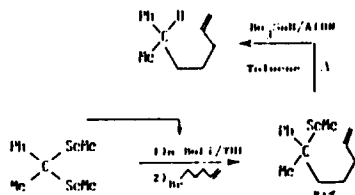
R	Me	iPr	tBu	Ph
Me	80	79	79	00
iPr	50	50	50	00
tBu	13	52	52	17
Ph	80	00	79	00
	50	26	26	11
	16	63	63	00

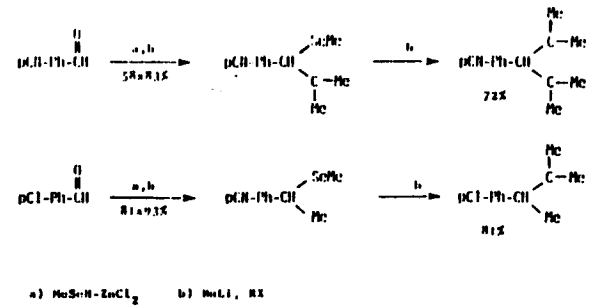
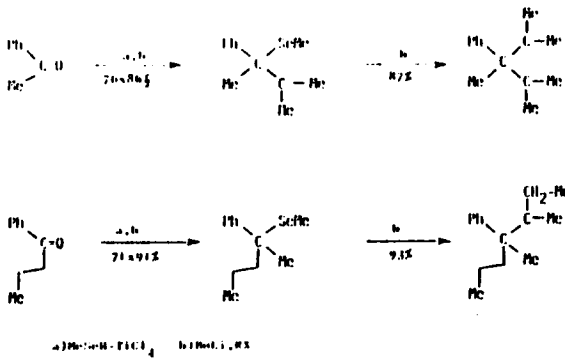
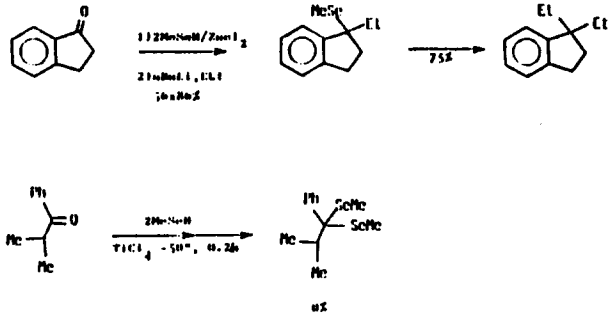
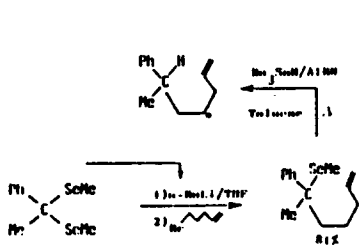


M. Clarambeau 1984

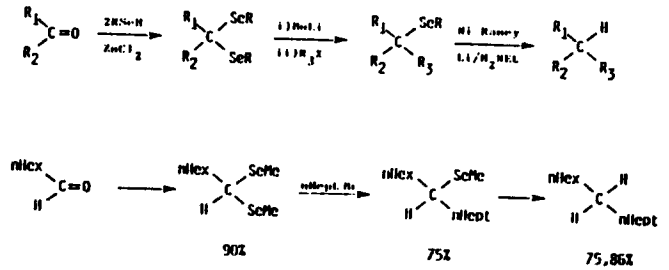
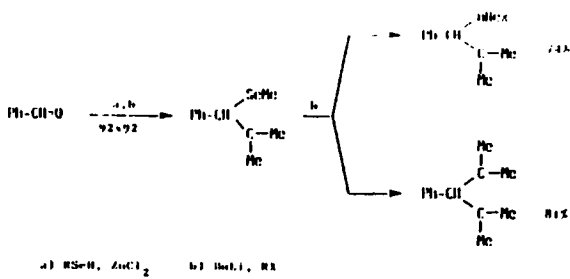


Ph. Barbeaux

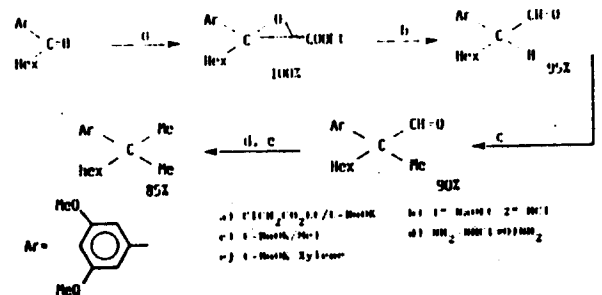
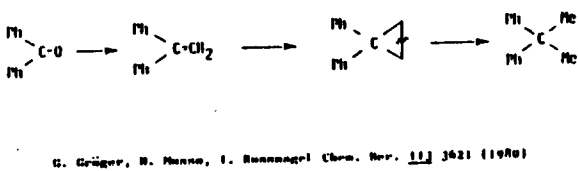
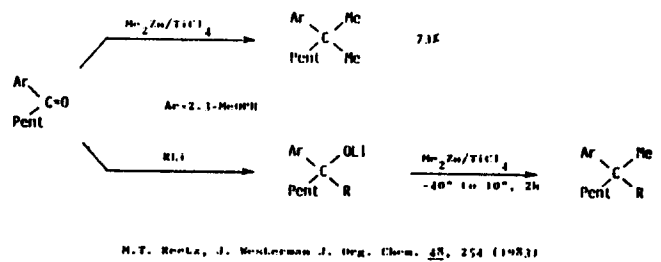
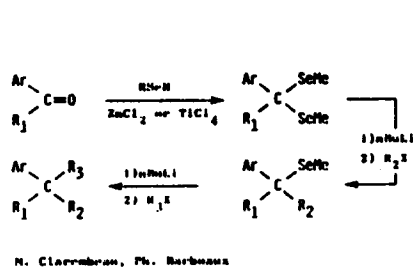




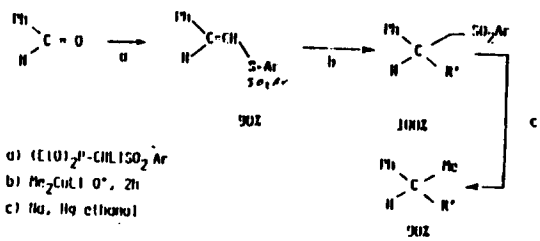
M. Ciarambra 1986



M. Severin 1976

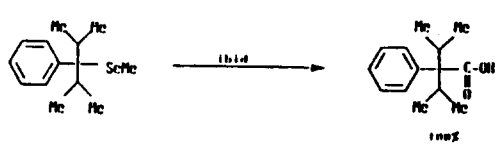
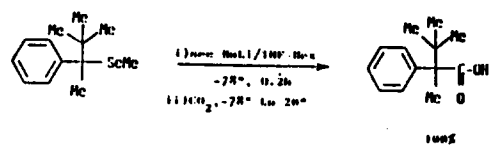
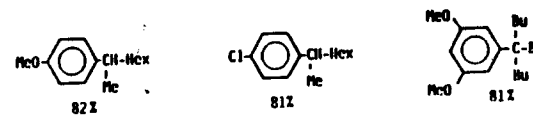
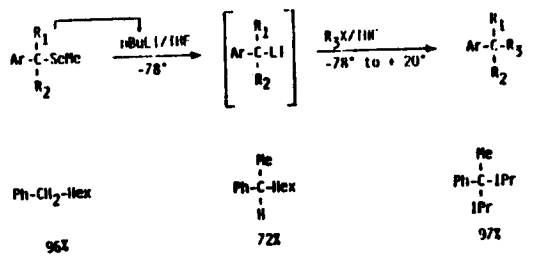


E. Katsunaka, P. Stark, R.G. Heister J. Medicinal Chem. 20, 12 (1977)
 J. Patzki, M. Kuczyński, R.J. Narany J. Org. Chem. 47, 1120 (1982)



- a) $(\text{EtO})_2\text{P} - \text{CHLiSO}_2\text{Ar}$
- b) $\text{Me}_2\text{CuLi O}^-, 2\text{h}$
- c) Bu, Hg ethanol

G.H. Posner, D.J. Brunelle, J. Org. Chem. 38, 2747 (1973)



Ph. Barboux 1976