Tetrahedron Letters, Vol.22, No.30, p 2842, 1981. Pergamon Press. Printed in Great Britain

ERRATA

TO WHAT EXTENT IS A π-ALLYLIC INTERMEDIATE INVOLVED IN SOME PALLADIUM-CATALYZED ALKYLATIONS ?

J.C. FIAUD and J.L. MALLERON

Laboratoire de Synthèse Asymétrique, Bât 420, Université Paris-Sud, 91405-Orsay France

Please note the following corrections to the above paper:
p. 1400, on lines 4 and 5 delete and its racemic mixture (entry 1)

on line 9 delete 1 and 2,

Also below is a revised version of Table 1

Palladium-catalyzed addition of sodium dimethyl malonate and sodium cyclopentadienide on allylic substrates in THF[a].

Entry	Substrate	phosphine ligand	nucleophile	(%) yield	Product $[\alpha]_D$ ($CHCl_3$)	α/γ[b]
1	dl - 6a	(-) diop	sodium dimethyl malonate	82	+3.9°	
2	dl - 6a	(+) diop	"	88	- 3.89°	
3	5	(-) diop	"	40	+ 1.20°	
4	(+)- 6a[c]	(-) diop	"	52	+ 4.10°[j]	
5	dl - 6b	(-) diop	"	66	+ 0.69°	
6	(+)- 6b[d]	(-) diop	"	76	+ 2.1°	
7	(+)- 6c[e]	(-) diop	"	89	+ 1.69°	
8	(+)- 6c[e]	(+) diop	"	58	- 2.86°	
9	(+)- 6c[e]	dppb[h]	"	72	- 0.15°	
10	7[f]	(-) diop	"	68	+ 1.31°	0.78
11	7[f]	(+) diop	"	84	- 2.66°	1.56
12	7	dppb[h]	"	83	- 0.32°	1.04
13	(+)- 6c	(-) diop	sodium cyclopentadienide	58	-16.1°	
14	(+)- 6c	dppe[i]	"	69	- 1.6°	

a) 48 hr at room temperature : catalyst $Pd(dba)_2$ (2.6×10^{-5} mole) ; phosphine (2.6×10^{-5} mole allylic acetate (2.6×10^{-3} mole) ; b) α/γ ratio for overall substitution was determined by integration of the cyclic vinyl and methine protons in the ^1H n.m.r. spectra of 8; c) $[\alpha]_D^{20}$ + 105.4° (c = 10, hexane) ; d) $[\alpha]_D^{20}$ + 40.7° (c = 10.5, hexane) ; e) Obtained from LAH reduction of (-)-carvone in ether at 0°C and successive acetylation : $[\alpha]_D^{22}$ - 50.2° (c= 5.8,hexane) f) Obtained from LAD reduction of (-)-carvone in ether at 0°C and successive acetylation ; $[\alpha]_D^{22}$ - 50.2° (c = 8, hexane) ; g) Diop is 2,3-isopropylidenedioxy-1,4-bis(diphenylphosphino)-butane, (-)-diop $[\alpha]_D^{22}$ - 12.4° (c = 2, benzene) ; (+)-diop $[\alpha]_D^{22}$ + 12.5° (c = 2, benzene) [7]; h) dppb stands for 1,2-bis(diphenylphosphino)butane ; i) dppe stands for 1,2-bis diphenylphosphino)ethane ; j) the configuration of this compound has been shown to be R by chemical correlation to (+)-(S)-3-(2-hydroxyethyl)cyclohexene[8].