

## GENERAL REMARKS

1. The I.R. spectra were recorded in nujol, or as a KBr pellet on Perkin Elmer-783.
2. The P.M.R. spectra were recorded in  $\text{CDCl}_3$  (unless otherwise stated) with TMS as an internal reference, on AC 200 (MHz) instrument. The chemical shifts ( $\delta$  values) are expressed in ppm.
3. The spectra are given just before the experimental part.
4. The melting points (m.p.) and boiling points (b.p.) are uncorrected.
5. The abbreviations used in the literature and charts are given below.

BINAP	= 1,1'-Binaphthalene-2,2'-diylbis (diphenyl phosphane),
DMA	= Dimethylamine,
DMF	= N,N-Dimethylformamide,
DMSO	= Dimethyl sulphoxide,
DMG	= N,N-Dimethyl glycine,
HMPA	= Hexamethyl phosphoramide,
hc	= Herrmann's palladacycle catalyst,
NMP	= N-methyl pyrrolidone,
$\text{PPh}_3$	= triphenyl phosphine,
$\text{P(o-Tol)}_3$	= tris (tri- o tolyl) phosphine,
$\text{P(t Bu)}_3$	= tris (tert-butyl) phosphine,
Pd	= Palladium,
PTC	= Phase - Transfer Catalyst,
pet. ether	= Petroleum ether,
THF	= Tetrahydrofuran.