**GENERAL REMARKS**

- Boiling points and melting points are uncorrected. Melting points were recorded on Buchi R-535 apparatus.
- Infrared spectra were recorded on Perkin-Elmer infrared-683 spectrophotometer with NaCl optics. Spectra were calibrated against the polystyrene absorption at 1601 cm⁻¹.
- Mass measurements were carried out on CEC-21-110B double focusing mass spectrometer operating at 70 eV using direct inlet systems and are given in mass units (m/z).
- Proton magnetic resonance spectra were recorded on Varian Gemini-200, Varian Unity-400 and Varian FT-80A. The samples were made in CCl₄/chloroform-d (1:1) using tetramethylsilane (Me₄Si) as the internal standard and are given in the d scale. The standard abbreviations s, d, t, q, m, dd, dt, dist d, dist q, brs, refer to singlet, doublet, triplet, quartet, multiplet, double doublet, doublet triplet, distorted doublet, distorted quartet, broad singlet respectively.
- The optical rotations were measure on Jasco Dip 360 Digital polarimeter.
- Analytical thin-alyer chromatographies (TLC) were performed on precoated silica gel-60 F₄₅₄ (0.5 mm) glass plates. Visualisation of the spots on TLC plates was achieved either by exposure to iodine vapour or UV light or by spraying sulphuric-α-naphthol or phosphomolybdic acid-sulphuric acid or sulphuric acid-vanillin and heating the plates at 120°C.
- All the reactions were monitored by employing TLC techniques using appropriate solvent systems for development. Moisture sensitive reactions were carried out by using standard syringe-septum techniques. n-Pentane, pet. Ether (boiling range 35 °C to 60 °C) were distilled over P₂O₅ and stored over pressed sodium wire; dry ether, dry benzene and dry THF were made by distilling them from sodium-benzophenone ketyl. All chlorinated
solvents, pyridine, DMF and TEA were distilled over CaH$_2$ and stored over 3A° molecular sieves. Acetone was distilled over potassium permanganate.  

- All solvent extracts were washed with water, brine, dried over anhydrous Na$_2$SO$_4$ and concentrated at reduced pressures on Buchi-RE-121 rotary evaporator below 50 °C. Yields reported are isolated yields of material judged homogenous by TLC and PMR spectroscopy.

- All solvents used for silica gel column chromatography were distilled prior to use. Silica gel used was 100-200-mesh.

- Ether used is diethyl ether unless otherwise mentioned. Ether used for extraction was distilled prior to use.