

GENERAL REMARKS

- * Melting points were recorded on Buchi-535 melting point apparatus and are uncorrected.
- * Optical rotations were measured with a JASCO DIP 370 digital polarimeter.
- * Enantiomeric excess were determined by using Eurocel 01 VEE 110 250 x 4.6 mm and Chiral pak IC 250 x 4.6mm column and was recorded on SHIMADZU HPLC.
- * Infrared spectra were recorded on Perkin-Elmer Infrared spectrophotometer with NaCl optics. Spectra were calibrated against the polystyrene absorption at 1610cm^{-1} . Samples were scanned either in neat, KBr wafers or in chloroform as a thin film.
- * Proton magnetic resonance spectra (^1H NMR) were recorded on Varian FT-200, 400 MHz (Gemini) Bruker 300MHz (Avance) spectrometer using tetramethylsilane (TMS) as an internal standard and CDCl_3 , CD_3OD , DMSO-d_6 as solvents. Chemical shifts have been expressed in δ ppm units downfield from TMS. ^{13}C NMR spectra were recorded on Varian 50 MHz (Gemini), Bruker, 75 MHz (Avance), using tetramethylsilane as an internal standard and CDCl_3 , CD_3OD , DMSO-d_6 as solvents.
- * Mass spectra were recorded on a CEC-21-110B, Finnigan Mat 1210 or MICRO MASS 7070 spectrometers at 70 eV using a direct inlet system.
- * All reactions were monitored by thin layer chromatography (TLC) carried out on 0.25 mm E Merck silica gel plate (GF_{254} pre-coated), developed on UV, and Molisch reagent or phosphomolybdic acid (PMA) (solution in ethanol) as developing agents.
- * All evaporations were carried out under reduced pressure on a Buchi rotary evaporator at below 50°C .
- * Silica gel (60-120) used for column chromatography and (>300) used for flash chromatography was purchased from Achme Chemical Company, Bombay.
- * Moisture sensitive reactions were carried out using standard syringe septum techniques.
- * Yields reported are isolated yields of material judged homogeneous by TLC and NMR spectroscopy.
- * The names of all the compounds given in the experimental section were taken from ACD/Name, Version 1.0 and ChemDraw Ultra 9.0.