GENERAL REMARKS

The present investigations were carried out in the Organic Chemistry Laboratory of the University of Kalyani, Kalyani-741235, West Bengal during the period Feb 2009 to Jan 2014.

The following remarks apply to all the experimental sections unless otherwise stated.

- Melting points were determined in an open capillary and are uncorrected.
- IR spectra were recorded on a Perkin-Elmer L 120-000A spectrometer using samples as liquid film for liquid compounds and solid samples were recorded in KBr plates.
- $^1$H-NMR and $^{13}$C-NMR spectra were recorded on a Bruker DRX-400 spectrometer using TMS as internal standard. The chemical shifts of the proton description are reported $\delta$ in ppm scale. CDCl$_3$ was used as solvent.
- Mass spectroscopic data were recorded with a JEOL JMS600 instrument.
- CHN elemental analyses were recorded on LECO 932 CHNS analyzer.
- Optical rotations were measured on a Rudolph Autopol-IV polarimeter.
- TLC experiments were done using silica gel as absorbent and chromatograms were visualized by exposing in iodine chamber, UV-lamp or spraying with sulfuric acid and heating. Column chromatography was performed on silica gel (60-120/200-240 mesh) using ethyl acetate/petroleum ether or methanol/chloroform mixtures as eluent.
- Organic solvents and reagents used were dried and purified using recommended procedures in literature when necessary. Petroleum ether refers to the fraction boiling between 60 °C and 80 °C. The analytical samples were routinely dried in vacuo at 60 °C for eight hours. In some cases the evaporations were carried out under reduced pressure on buchi rotary evaporator.
- The moisture sensitive reactions were performed in oven-dried glasswares under nitrogen/argon atmosphere.