

TRIFLUOROMETHYLATED INTERMEDIATES FOR STEROIDS SYNTHESIS

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2-Trifluoromethyl-1,3-cyclopentanedione is a versatile synthon for steroids synthesis (Main lecture-II). The preparation of this base sensitive dione will be described starting from readily available simple precursors.

Its Michael condensation with methylvinylketone followed by amino acid mediated aldol condensation of the resulting trione give access to optically active 7,7a-Trifluoromethyl-1,5 (6H)-Indandione a potent chiral CD portion of the steroidal skeleton.