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(57) Abstract :

The present invention relates to an improved process for alkylation of hydroxy chalcone at the phenolic hydroxyl group using carbonate bases via nucleophilic substitution. The method employs 1-bromo-3-chloropropane as alkylating agent and acetonitrile as solvent. Carbonate bases including potassium, sodium, and cesium carbonate facilitate deprotonation to form a phenoxide ion, which reacts to yield alkoxy chalcone derivatives. Cesium carbonate shows highest yield (91%) due to weak ion pairing, while potassium carbonate provides balanced yield (78%), selectivity, and cost-effectiveness. Sodium carbonate shows lower yield (52%). The process offers optimized conditions for synthesizing pharmaceutical intermediates.

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