

AROMATIC METHYL KETONES IN THE SYNTHESIS OF BIOLOGICALLY ACTIVE CHALCONES

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Abstract. This review will primarily focus on recent methods employed for the synthesis of a diverse array of chalcones with broad-ranging biological activities, with a particular emphasis on the past five years. The utilization of aromatic methyl ketones and their derivatives as starting materials for the synthesis of various heterocyclic compounds, such as chalcones, pyrazolines, dioxolanes, aminothiazoles, and more, holds significant importance in the field of synthetic organic chemistry. The synthesized heterocyclic compounds can serve as valuable subjects for testing to assess their biological activity.

Keywords: acetophenone, vinyl-1,2,4-triazole, tetrazole-pyrazoline hybrid, Claisen-Schmidt condensation, chromenol.