

THE STUDY OF CROSSED ALDOL CONDENSATION AT THE SYNTHESIS OF ASYMMETRIC DIBENZALACETONE

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The synthesis of asymmetric dibenzalacetone has been done by crossed aldol condensation. It can be made from 3,4-dimethoxybenzaldehyde, benzaldehyde and acetone as the starting materials. As a nucleophile, acetone, has α -hydrogens in two side. It means, that it can attack two kinds of aldehyde. The product will be characterized by $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, HMOC and HMBC spectrometer. Therefore, it was identified as 1(E),4(E)-1-phenyl-5-(3',4'-dimethoxyphenyl)-penta-1,4-diene-3-one.

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