SOME NEW SYNTHETIC REACTIONS INVOLVING SODIUM HYPOCHLORITE

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ABSTRACT OF THE THESIS

It was found that under acidic conditions, malonic acid reacts with sodium hypochlorite to give various halogeno-compounds in small yield.

In basic medium the reactive methylene groups of malonic acid and pentan-2,4-dione were oxidized to the dihydroxy form.

The methylene protons of some substituted acetic acids were found to be activated by adjacent phenyl, naphthyl and olefinic groups. In almost all of the substituted acetic acids dealt with, an aldehyde having one carbon atom less than the starting material was one of the products obtained.

When α-Hydroxyacids were treated with alkaline sodium hypochlorite they gave the aldehyde that results from decarboxylation and oxidation of the corresponding alcohol.