

DISCUSSION

The results of the present investigation indicate that the mechanism of the reaction of the alkyl halides with the sodium salt of the diethyl malonate is a bimolecular process. The rate of reaction is proportional to the concentration of the alkyl halide and to the concentration of the sodium salt of the diethyl malonate. The order of reaction with respect to the alkyl halide is unity and with respect to the sodium salt of the diethyl malonate is also unity. The rate of reaction is independent of the concentration of the sodium acetate. The results are in agreement with the proposed mechanism.