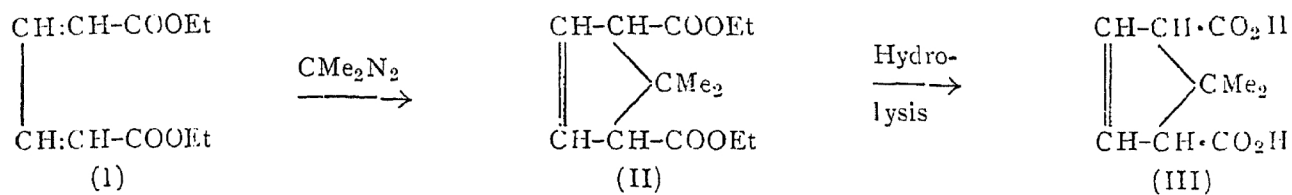


A New Method of Synthesis of Iso-
dehydroapocamphoric Acid.

ISODEHYDROAPOCAMPHORIC acid (III) was synthesised by Komppa¹ starting from dimethyl glutaric ester *via* ethyl oxalodimethylglutarate (diketoapocamphoric ester) and dihydroxyapocamphoric acid.

As the first experiment tried on the possibility of formation of *cyclopentane* compounds by the action of dimethyldiazomethane upon butadienes containing a system of conjugated double bond, the diazo compound has been found to add up to diethyl muconate (I) to yield diethyl isodehydroapocamphorate (II). The ester (II), b.p. 200°/100 mm., gives on hydrolysis the corresponding acid, m.p. 208-209° (Komppa, m.p. same), and the



anhydride prepared on treatment with acetyl chloride, m.p. 195° (Komppa, m.p. same).

Further work is in progress by way of extending this reaction with other conjugated double bonded systems.

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¹ *Annalen*, 1909, **368**, 146.