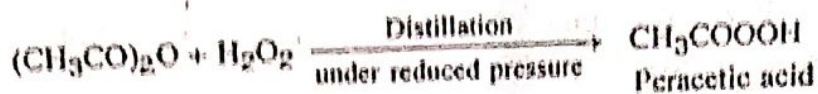


(6) Peracetic acid :

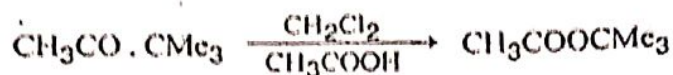
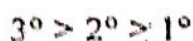
It is prepared by treating acetic anhydride with concentrated H_2O_2 solution and then distilling the mixture under reduced pressure :



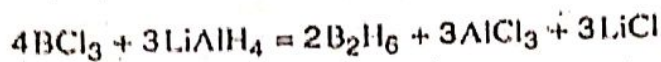
It is used in Baeyer-Villiger oxidation e.g. when acetone is treated with peracetic acid, methyl acetate is formed—



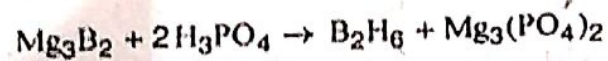
It involves an intramolecular anitropic rearrangement in which an alkyl group which the bonded pair of electron migrates from the carbonyl C-atom to an electron deficient O-atom. This reaction is usually carried out in inert solvent like CH_2Cl_2 . This reaction gives a good yield of esters or acids. More nucleophilic alkyl group migrates, hence the order of migration is given as

**(7) Diborane, B_2H_6 :**

It is at best prepared by the action of LAH on BCl_3 vapours



It is also prepared by the action of H_3PO_4 on Mg_3B_2



Mg-boride

It is used for carrying out *hydroboration*. In this reaction, the alkyl borane products formed by the action B_2H_6 on unsaturated organic compounds in dry ether under an inert atmosphere may be converted into hydrocarbons by carboxylic acids, to alcohols by alkaline H_2O_2 and ketones or carboxylic acids by oxidation with chromic acid.

