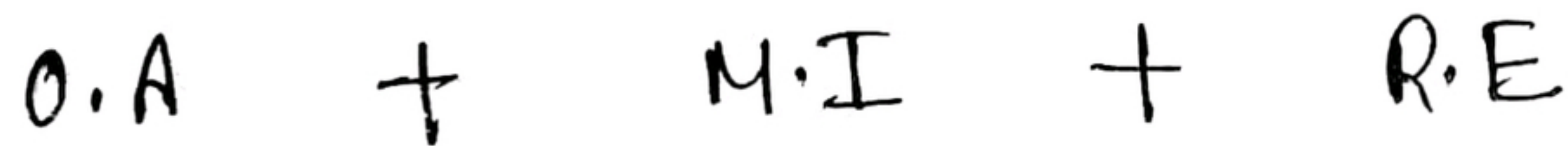
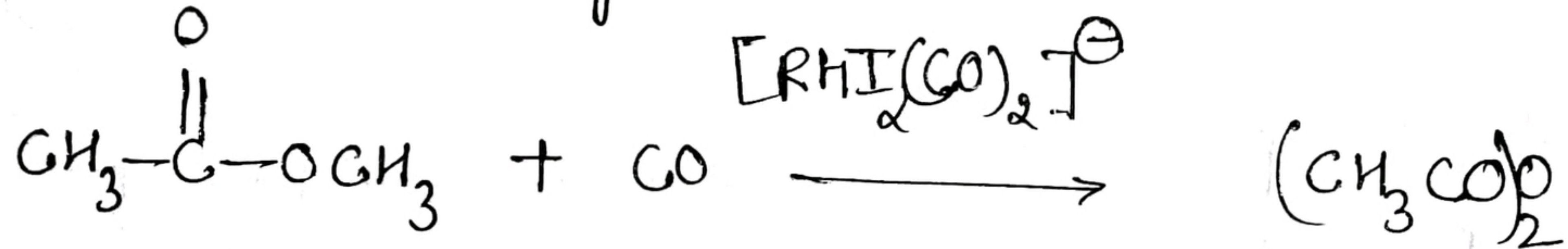


TENNESSEE EASTMAN ACETIC ANHYDRIDE PROCESS ÷

The tennessee eastman acetic anhydride process converts methyl acetate to acetic anhydride using $[\text{RhI}_2(\text{CO})_2]^-$ complex as a catalyst.

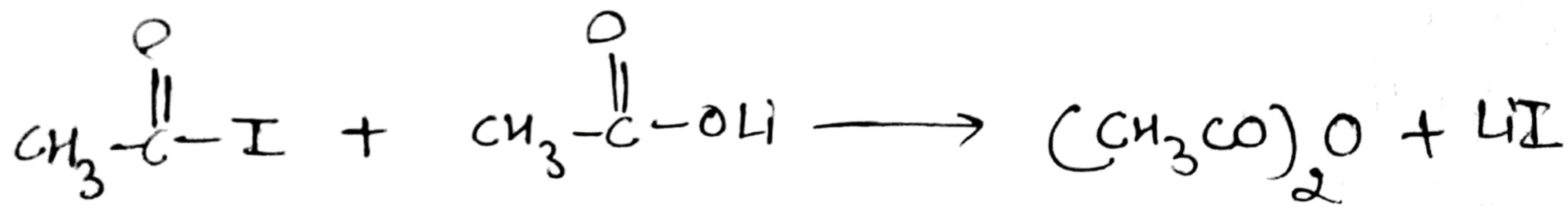


Steps involved similar to production of acetic acid by Monsanto process.

methanol by methylacetate
 water by acetic acid
 acetic acid by acetic anhydride
 HI by LiI



Acetyl iodide formed in some manner as described
 in Monsanto process



On using NaI at place of LiI rate of reaction become
 slower by factor 2.5