ADDITION OF TRIFLUORODIAZOETHANE TO UNACTIVATED ALDEHYDES

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The poorly reactive 2,2,2 trifluorodiazoethane is able to add to unactivated aldehydes provided that the reaction is performed in presence of Lewis acids. This condensation leads mainly to homologated ketones and aldehydes α substituted by a trifluoromethyl group.

 $CF_{3}CHN_{2} + RCHO \xrightarrow{1} Lewis acid 0 \\ \xrightarrow{} R-C-CH_{2}-CF_{3} + R-CH-CHO \\ \xrightarrow{1} CF_{3} \\ C$