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[eKl25cn1Byg](https://www.youtube.com/watch?v=eKl25cn1Byg)

This video discusses the mechanism of the malonic ester synthesis reaction including an intramolecular ring closing example. After the removal of the alpha hydrogen, direct alkylation occurs with an alkyl bromide to an 1 or 2 R groups followed by acid hydrolysis to create two carboxylic acids. Decarboxylation occurs by the addition of heat creating a substituted Carboxylic Acid Derivative.

Source : <https://www.youtube.com/channel/UCEWpbFLzoYGPfuWUMFPSaoA>

Source : [The Organic Chemistry Tutor](#)