Question#76196 – Chemistry – Organic chemistry

Question:

Write the chemical equation for claisen reaction and knowledgeable reaction and willgerodt reaction

Answer:

The Claisen reaction is a reaction between two esters in the presence of a strong base.

The reagents transform to β -keto esters in result:

$$R^{1} \longrightarrow 0 \qquad R^{2} \qquad + \qquad R^{3} \longrightarrow 0 \qquad R^{4} \qquad 1. \text{ NaOEt} \qquad \qquad R^{1} \longrightarrow 0 \qquad R^{4} \qquad + \qquad R^{2} \longrightarrow 0$$

The Willgerodt Reaction is synthesis of amides from aryl aldehydes and ketones using ammonium polysulfide:

$$\begin{array}{c} O \\ \hline \\ Me \end{array} \begin{array}{c} (NH_4)_2S_x \\ \hline \\ NH_4OH \end{array}$$

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