

Controlling the Reaction Temperature

It is important to control the reaction temperature in order to obtain the desired product. The reaction temperature can be controlled by using a water bath, an oil bath, or a sand bath. The reaction temperature can also be controlled by using a cooling coil or a cooling jacket.

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1. Round-bottom flask
2. Three-necked round-bottom flask
3. Vertical reflux condenser
4. Three-necked flask with reflux condenser



Application

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Reaction Conditions	
Temperature	60-70 °C
Reaction time	2-3 hours
Yield	~80%
Workup	Extraction with diethyl ether
Purification	Column chromatography
Characterization	IR, ¹ H NMR, MS

