

Ministry of Higher
Education and Scientific
Research

University of Anbar

College Science

Department Chemistry



وزارة التعليم العالي والبحث العلمي

جامعة الأنبار

كلية العلوم

قسم الكيمياء

الكراس التعريفي لتجارب

مختبر الكيمياء العامة

الكيمياء العضوية

المرحلة الاولى

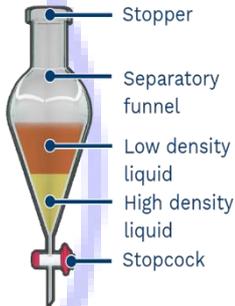
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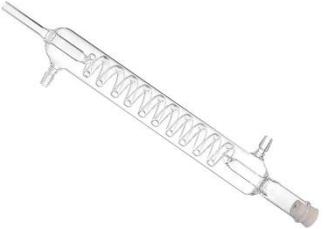
الادوات المستخدمة في مختبر العضوية لهذا الفصل

**Some Glassware and apparatus used in
Organic Chemistry Lab**

اعداد:

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No.	Glassware Name	Usage	Picture
1	Round bottom flask	Specifically shaped for uniform heat distribution, the round bottom flasks are used for: <ul style="list-style-type: none"> •distillation •chemical reactions •heating liquid sample •storage demands. Manufactured from resistant glass, the round bottom flasks have short or long neck options	
2	Separation funnel	Used in liquid-liquid extractions to separate (partition) the components of a mixture into two immiscible solvent phases of different densities. Typically, one of the phases will be aqueous, and the other a lipophilic organic solvent such as ether, MTBE, dichloromethane, chloroform, or ethyl acetate	
3	Magnetic stirrer bar	Used to make a stirring action inside the vessel containing the liquid (like: Beakers and Round bottom flask). The stir bar's motion is driven by another rotating magnet in the stirrer device, beneath the vessel	
4	Hot plate and magnetic stirrer	Used for: <ul style="list-style-type: none"> •supply a stirring action inside the vessel by drive the magnetic bar magnetically. •Heat up the liquid inside the vessel. 	

5	Capillary tube	Melting point capillaries are sealed in one end with samples inside and placed inside a melting point apparatus, which is then heated in order for the user to observe any phase changes from solid to liquid and when they occur.	
6	Melting point apparatus	Used to determine the melting point of a sample that is put inside the capillary tube	
7	Condenser	Used to condense the vapors (turn them into liquids) by cooling them down. They are used in: <ul style="list-style-type: none"> •Reflux •Distillation 	
8	Buchner funnel	Used in vacuum-assisted liquid filtering alongside with Buchner Flask	
9	Buchner Flask	Used for receiving a filtering liquid. It is often provided with a side tube to connect with a suction pump	