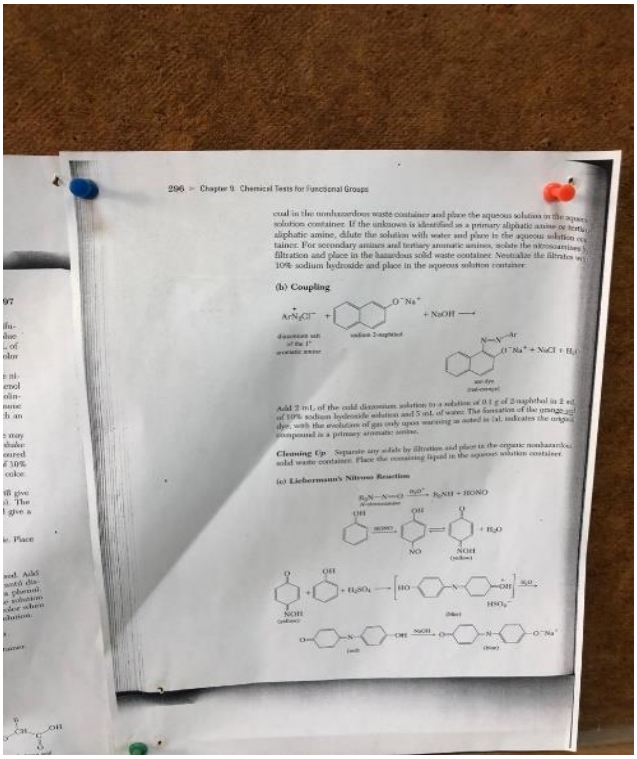
Systematic Identification of Organic Compound

مختبر تشخيص المركبات العضوية

يركز مساق تشخيص المركبات العضوية على مناقشة تحضير المركبات العضوية متعددة الخطوات و اجراء الاختبارات للخصائص الفيزيائية المختلفة للتعرف على المركبات العضوية غير المعروفة من خلال درجة الانصهار و تفاعلها مع بعض المواد الكيميائية بهدف التعرف على المجموعات التي تدخل في تركيب المادة المجهولة.



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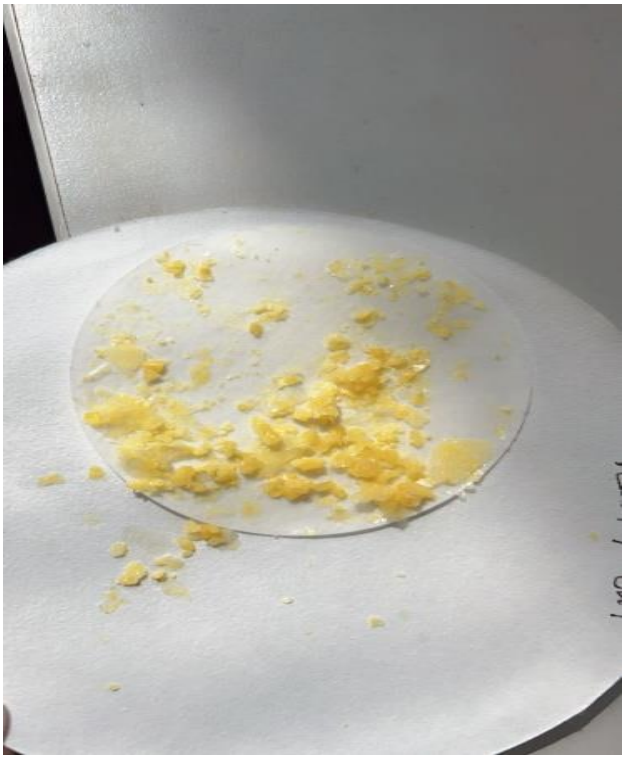
cual in the nonhazardous waste container and place the aqueous solution in the aqueous solution container. If the unknown is identified as a primary aliphatic amine or tertiary aliphatic amine, dilute the solution with water and place in the aqueous solution container. For secondary amines and tertiary aromatic amines, isolate the nitrosoamines by filtration and place in the hazardous solid waste container. Neutralize the filtrates with 10% sodium hydroxide and place in the aqueous solution container.

(b) Coupling

Add 2 mL of the cold diazonium solution to a solution of 0.1 g of 2-naphthol in 2 mL of 10% sodium hydroxide solution and 5 mL of water. The formation of the orange azo dye, with the evolution of gas only upon warming as noted in (a), indicates the original compound is a primary aromatic amine.

Cleaning Up Separate any solids by filtration and place in the organic nonhazardous solid waste container. Place the remaining liquid in the aqueous solution container.

(c) Liebermann's Nitroso Reaction