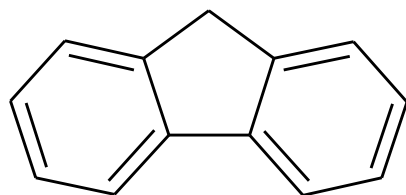


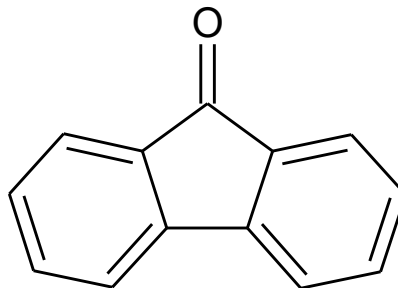
Column Chromatography

128K

10/12/26



Fluorene



Fluorenone

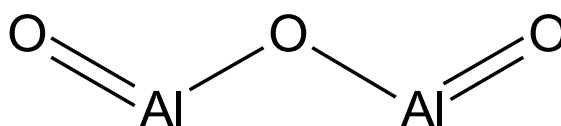
yellow

1 mL

25 mg/mL

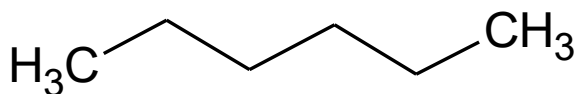
Stationary Phase

Alumina Al_2O_3

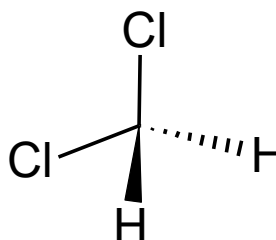


Mobile Phase

1. n-Hexane C_6H_{14}



2. Dichloromethane (DCM) CH_2Cl_2



Preparing Column

1. Wet Method

More uniform packing

Less prone to air bubbles

2. Dry Method

Faster and easier

10 mL N Hexane
(Fluorene) x 2

10 mL DCM x 2
(Fluorene)

1/2 cm
Sand

4.0 g
Alumina

1 mL

10 mL
Hexane

10 mL
DCM



air dry

Fluorenone

m.p., % recovery

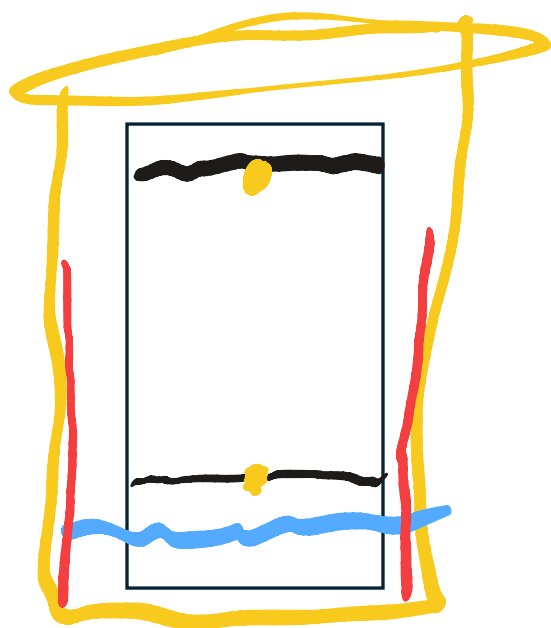
Fluorene

25 mg x 2 50 mg

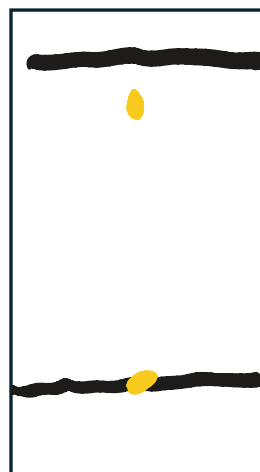
$$\frac{\text{mass mg}}{50 \text{ mg}} \times 100 = \% \text{ recovery}$$

Thin Layer Chromatography

Fluorene



Fluorenone



60%

20-40