

Extraction

128K

9/28/24

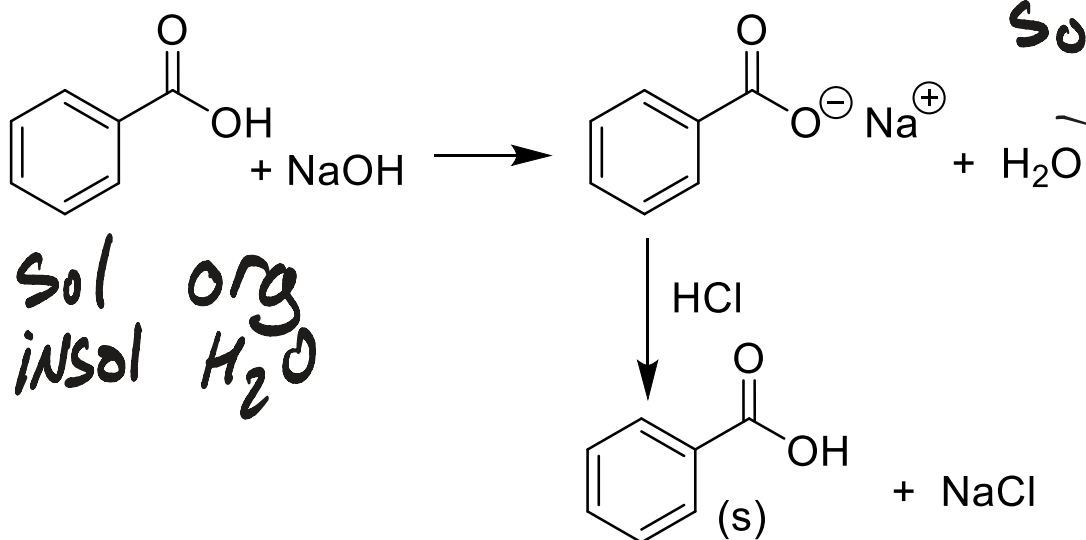
L/S

L/L

S₀ S_x

1. S₀ + S_x immiscible
2. S_x irreversibly React
3. S_x specific
4. S_x easily Removed

1. temp 2. ionic strength
 3. pH 4. pressure Volume



Sol org
 insol H₂O

insol org
 Sol H₂O

0.2 g B/N 1:1

10 mL Ethyl acetate (EA)

1x 10 mL HCl

10 mL EA (N) x 2

10 mL HCl (B) x 2

20 mL NaOH

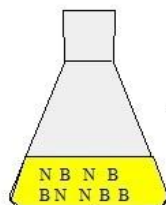
ice

20 mL HCl

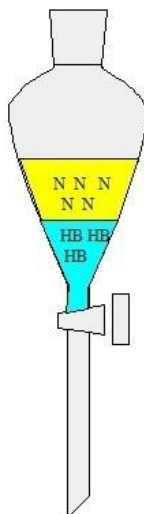
Key
B = Unknown Base
N = Unknown Neutral
HB = Conjugate Acid

Organic Phase

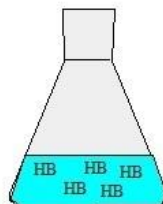
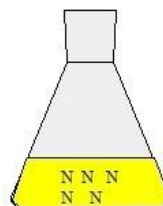
Aqueous Phase

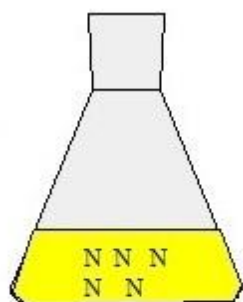


Extract with HCl



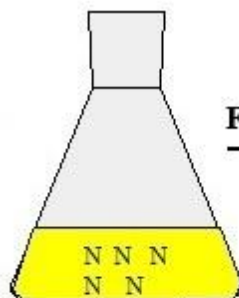
Separate Phases





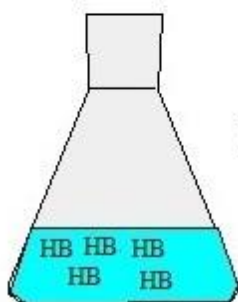
NO_2SO_4

Dry with Sodium Sulfate

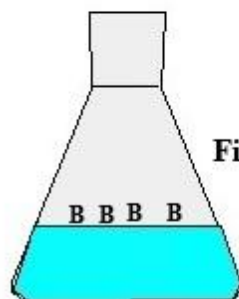


Filter with glass funnel

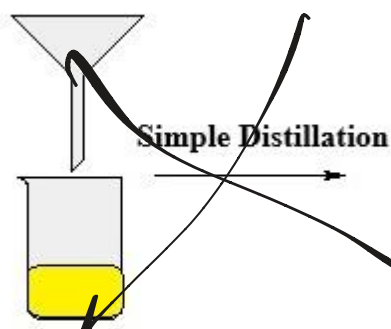
decant



Neutralize with NaOH



Filter with Buchner Funnel



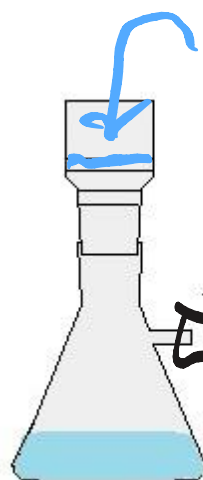
Simple Distillation



10-15 mins

N(s)

slowly Add NaOH
1-2 mL



Isolate Solid

Vacuum

B(s)

