

Recrystallization

220C

9/28/26

0.2g

B/N

1:1

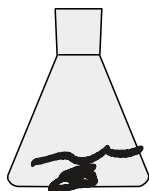
B_s

N_s

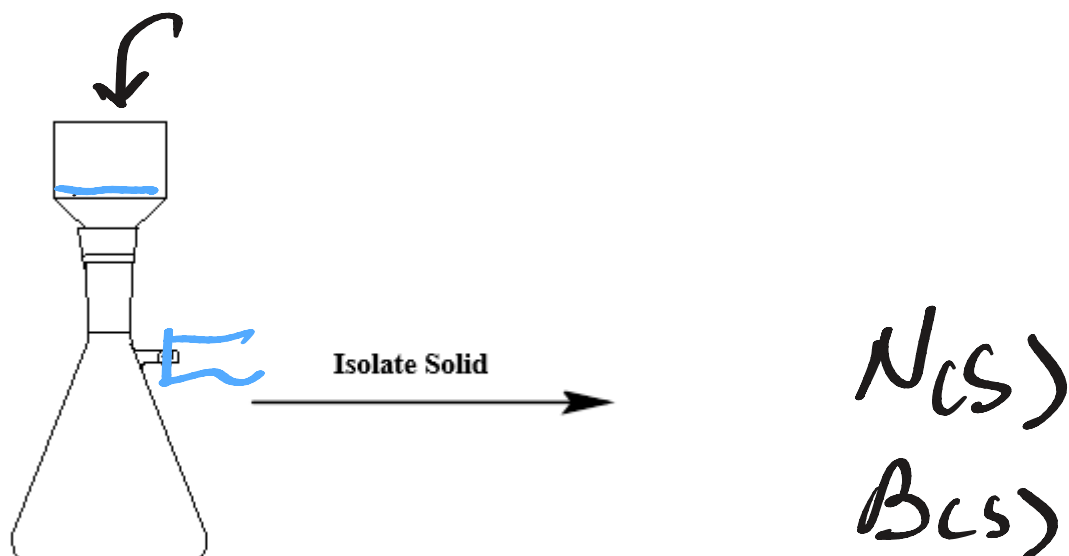
1. Compound insol "cold"
2. Compound sol "Hot"
3. impurities solubility is temp independent

H₂O B

MeOH N



1. 2-3 mL solvent
2. 0.5 mL ~ 1 mL at a time
3. Filter while Hot
4. Cool solution slowly to room temp
5. Filter 2nd time



Pre-Recrystallization

Sample	MP (°C)	Mass (g)
B	91-97	0.18
N	121-126	0.07

Post-Recrystallization

Sample	MP (°C)	Mass (g)
B	93-95	0.09
N	125-126	0.05

$$\% \text{ recovery} = \frac{\text{mass(g)}}{0.2\text{g}} \times 100$$

1:1 0.2g

$$0.1\text{g O} \times 2 = 0.2\text{g}$$

$$0.1\text{g N} \times 2 = 0.2\text{g}$$

good = 60%

30 - 40 %

