

Recrystallization

128K

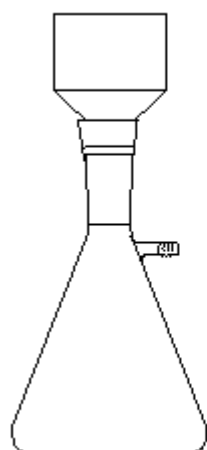
10/5/20

0.2 g 1:1 B/N

1. Compound insol "Cold" Δ (s)
2. Compound sol "Hot" N (s)
3. impurities solubility is temp independent



1. 2-3 mL solvent
2. 0.5 mL - 1 mL
3. when it just dissolves Filter
4. cool slowly
5. Filter again



1-2 °C

5-7 °C

B(s)

N(s)

most

0.2g

Pre-Recrystallization

	Sample	MP (°C)	Mass (g)
H ₂ O	B	77-83	0.17
MeOH	N	120-125	0.09

Post-Recrystallization

	Sample	MP (°C)	Mass (g)
	B	74-76	0.07
	N	122-124	0.08

$$\% \text{ recovery} = \frac{0.17g}{0.2g} \times 100$$

$$= 85\%$$

$$\frac{0.09}{0.2} = 45\%$$

65%

20-40