

Notes on Spec Pt. II

- Solving for C_{BTB} and C_{TB} in the unknown
- 2 equations

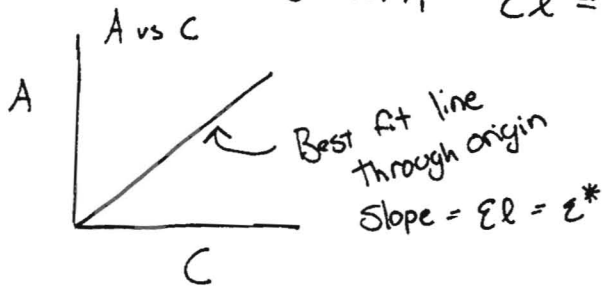
$$A_{618} = \epsilon_{BTB, 618}^* [C_{BTB}] + \epsilon_{TB, 618}^* [C_{TB}]$$

$$A_{434} = \epsilon_{BTB, 434}^* [C_{BTB}] + \epsilon_{TB, 434}^* [C_{TB}]$$

Remember:

$$A = \epsilon l C$$

and, since $l = 1\text{cm}$, $\epsilon l = \epsilon^* = \text{Slope of graph...}$



know: ϵ^* for BTB and TB @ 618 and 434 (from 4 graphs)

A_{618} (A of mixture @ 618)

A_{434} (A of mixture @ 434)

Solve: $[C_{BTB}]$ and $[C_{TB}]$

- Adjusting Scans \rightarrow done on the pt I data to adjust to unknown for comparison

$$A_2 = \left(\frac{C_2}{C_1}\right) A_1$$

A_1 = A of BTB OR TB from pt I

C_1 = Concentration of BTB OR TB from stds in pt. I

C_2 = Concentration of BTB OR TB in unknown