

Table 1: Absorbance with varying concentration Rhodamine-B

S. No.	Rhodamine-B, $\mu\text{M}$	Absorbance at 554 nm
1	1.0	0.1056
2	1.5	0.1705
3	2.0	0.2294
4	2.5	0.2995
5	3.0	0.3869
6	Unknown	0.3250

**Plot 1: Absorbance vs Concentration** (from table 1)

**Result:**

- 1) Slope of the plot =
- 2) Concentration of unknown solution =

Questions: (Please answer below question in 2 or 3 sentences)

1. What is the significance of molar absorptivity constant?
2. Can you find unknown concentration of NaCl in water using this experiment?