

Module 2: Synthesis of Coordination Compounds and Kinetics

Pre-Lab questions.

- 1.- Describe the structure of the $[\text{Co}(\text{NH}_3)_5(\text{Cl})]\text{Cl}_2$.
- 2.- Calculate the theoretical yield for this reaction
- 3.- Describe the Beer's law.
- 4.- What is the molar absorption coefficient and its units?
- 5.- Which one of the following can form geometric isomers?
a) $[\text{AgCl}_2]^-$ b) $[\text{Co}(\text{OH}_2)_5\text{Cl}]^{2+}$ c) $\text{Ni}(\text{OH}_2)_2\text{Br}_2$

Extra

- 6.- The transmittance of a 0.010 M solution of a compound in a 0.100-cm pathlength cell is $T=8.23$ percent. Find the absorbance (A) and the molar absorptivity (ϵ).

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