

## Colorimetric Analysis Tutorial Answers

1. a) The limitations of the Beer-Lambert Law are:

- Deviations in absorption coefficients at high concentrations (>0.01M) due to electrostatic interactions between molecules in close proximity
- Scattering of light due to particulates in the sample
- Fluorescence or phosphorescence of the sample
- Refractive index changes with analyte concentration
- Shifts in chemical equilibrium as a function of concentration
- Non-monochromatic radiation (deviations can be minimized by using a relatively flat part of the absorption spectrum such as the maximum of an absorption band)
- Stray light
- Unmatched cells

See D A Skoog, F J Holler, S R Crouch, (2007) "Principles of Instrumental Analysis", 6th Ed., p 336-343 for a full description.

b) Colorimetric analysis of mixtures requires/assumes no interaction between the various species present i.e. they do not change each other's colour/absorbance spectrum.

2. Break the problem down into steps and use equations for propagation of errors.

|                 | Value   | SD    |
|-----------------|---------|-------|
| $A_1$           | 0.312   | 0.003 |
| $A_2$           | 0.092   | 0.002 |
| $l$             | 1.000   | 0.005 |
| $\epsilon_{A1}$ | 70.660  | 2.165 |
| $\epsilon_{A2}$ | 3.510   | 0.197 |
| $\epsilon_{B1}$ | 16.910  | 0.786 |
| $\epsilon_{B2}$ | 107.230 | 3.055 |

| Step  | Value     | Error     |
|---|-----------|-----------|
| $\epsilon_{B1} A_2$   | 1.5557    | 0.0798    |
| $\epsilon_{B2} A_1$   | 33.4558   | 1.0060    |
| $\epsilon_{A2} \epsilon_{B1}$                               | 59.3541   | 4.3254    |
| $\epsilon_{A1} \epsilon_{B2}$                               | 7576.8718 | 317.0067  |
| $\epsilon_{B1} A_2 - \epsilon_{B2} A_1$                     | -31.9000  | 1.0091    |
| $\epsilon_{A2} \epsilon_{B1} - \epsilon_{A1} \epsilon_{B2}$ | 7517.5177 | 317.0362  |
| $c_A$   | 0.004243  | 0.0002247 |

$$= 1.5557 \times \sqrt{[(0.786/16.91)^2 + (0.002/0.092)^2]}$$

$$= 33.4558 \times \sqrt{[(3.055/107.23)^2 + (0.003/0.312)^2]}$$

$$= 59.3541 \times \sqrt{[(0.197/3.51)^2 + (0.786/16.91)^2]}$$

$$= 7576.8718 \times \sqrt{[(2.165/70.66)^2 + (3.055/107.23)^2]}$$

$$= \sqrt{[(0.0798)^2 + (1.0060)^2]}$$

$$= \sqrt{[(4.3254)^2 + (317.0067)^2]}$$

$$= 0.004243 \times \sqrt{[(1.0091/-31.9000)^2 + (317.0362/-7517.5177)^2 + (0.005/1)^2]}$$

| Step  | Value      | Error    |
|---|------------|----------|
| $\epsilon_{A1} A_2$   | 1.0951     | 0.0624   |
| $\epsilon_{A2} A_1$   | 6.5007     | 0.2442   |
| $\epsilon_{B1} \epsilon_{A2}$                               | 59.3541    | 4.3254   |
| $\epsilon_{B2} \epsilon_{A1}$                               | 7576.8718  | 317.0067 |
| $\epsilon_{A1} A_2 - \epsilon_{A2} A_1$                     | -5.4056    | 0.2521   |
| $\epsilon_{B2} \epsilon_{A1} - \epsilon_{B1} \epsilon_{A2}$ | -7517.5177 | 317.0362 |
| $c_B$   | 0.000719   | 0.000045 |

Therefore:  $c_A = 0.00424 \pm 0.00022$  M and  $c_B = 0.00072 \pm 0.00005$  M

# Colorimetric Analysis Lab Answers

**David Baud**



## **Colorimetric Analysis Lab Answers:**

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Colorimetric Analysis Lab Answers**

In some sort of inundated with displays and the cacophony of fast conversation, the profound power and psychological resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the constant barrage of noise and distractions. However, situated within the musical pages of **Colorimetric Analysis Lab Answers**, a charming perform of literary splendor that pulses with raw feelings, lies an memorable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this mesmerizing opus guides viewers on a psychological odyssey, lightly exposing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is main themes, dissect its interesting publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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