

Name: _____

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Analytical Chemistry II – Quiz (24th March, 2020)

1) Write down the equation for Beer's law. Define all the variables and constants in this equation, and specify their units.

$$A = bc$$

A – absorbance (no units)

– molar absorptivity (L/(mol · cm))

b – optical pathlength (cm)

c – analyte concentration (M or mol/L)

2) What factors contribute to the broadening of spectral line widths in atomic spectroscopy?

– Line broadening due to uncertainty effect

– Doppler broadening

– Pressure (collisional) broadening