

Beer's Law - CORRECT ANSWER-

Beer's Law Calculations - CORRECT ANSWER-

Beer's Law extension to mixtures of compounds - CORRECT ANSWER--can extend to sample containing several absorbing components if there are no interactions

- individual absorbances are additive
- low concentration analytes
- assumes one monochromatic wavelength
- 

CCD - CORRECT ANSWER--is a silicon-based multichannel array detector of UV, visible and near-infra light

- sensitive to light

Chemical ionization (CI) - CORRECT ANSWER--First ionizes a molecular gas which in turn ionizes the molecule of interest. A "gentler" method of ionization.

- soft
- electron beam creates ions
- proton transfer between reagent gas and the analyte
- gives MW and MW+1 or MW-1

CI advantages - CORRECT ANSWER--MW info more readily available

# Instrumental Analysis Exams Multiple Questions

**Christian Drosten**



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