

# Instrumental Analysis ACS Exam

How to calculate signal to noise

$S/N = \text{mean}/\text{STDEV}$

-inverse of RSD

-STDEV: 5 (#STDEV gaussian curve)

-STDEV: peak-to-peak noise/5

S/N relationships

-increase S/N, increase run time

-decrease noise, increase S/N

Beer's Law

Beer's Law Calculations

Hard ionization vs soft ionization

-hard: no  $M^+$  peak (or small)

-soft:  $M^+$  peak is visible

MS: hard ionization sources

-impart high quantities of residual energy in the subject molecule invoking large degrees of fragmentation

MS: hard ionization sources examples

-electron impact

Electron Impact (EI)

-Uses electron impact to ionize a molecule

-gas phase

-energetic electrons

-possibility of over fragmentation

-hard

-most common

EI advantages

-good stability

-universal ionization

-reproducible spectra

EI disadvantages

-MW can be hard to determine

-compatible only with volatiles (GCMS)

-Hard to make negative ions

MS: soft ionization sources

-processes which impart little residual energy onto the subject molecule and as such result in little fragmentation

MS: soft ionization sources examples

-CI

-ESI

-MALDI

Chemical ionization (CI)

# Acs Instrumental Analysis Exam Study Guide

**Ying Liu**



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