

Instrumental Analysis ACS Prep Complete Study Questions And Answers

what is chemical noise? - fumes, moisture, vibrations, side reactions

types of instrumental noise thermal, shot, flicker, environmental

thermal noise cause and how to minimize - random movement
- lower temperature

shot noise cause and how to minimize - over any period of time, variation in instrument detection
- have lots of sample to minimize noise, only a problem with low signal

flicker noise cause and how to minimize - low frequency flicker/slight change in signal (lightbulb turning on)
- run blank everytime

environmental noise cause and how to minimize - physical noise like walking vibrations, breathing, temperature and frequency events
- you can not really minimize this

when is atomic spectroscopy used and what for? most often used to detect trace amounts of metals in things

flame source pros and cons pros: cheaper than ICP, good for absorbance because not as hot
cons: possible contaminants from flame, oxidation of analyte, sample waste, flickering and soot can cause problems

flame source how it works - atomic spec temp depends on fuel source, hottest part is the middle of the flame

graphite furnace source pros and cons - atomic spec pros: sample can be solid, good for absorbance and small sample sizes, good sensitivity (more than flame), consistent temperature
cons: can only do one analyte at a time, analyte cant have carbon, hard to build curve, non reproducible introduction

graphite furnace source how does it work - atomic spec graphite tube with a gas that flows through and wire wrapped around gets really hot

ICP torch source - pros and cons - atomic spec pros: no matrix effect, ionizes everything, extremely hot, everything can be excited

Instrumental Analysis Acs Study Guide

CL Gary



Instrumental Analysis Acs Study Guide:

Instrumental Analysis Acs Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Instrumental Analysis Acs Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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