

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 can't 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 Practice Exam

Ian Pickup



Instrumental Analysis Acs Practice Exam:

Reviewing **Instrumental Analysis Acs Practice Exam**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Instrumental Analysis Acs Practice Exam**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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