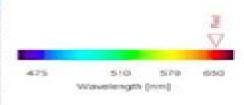
#### Atomic Emission Spectra Lab

Directions: From the lab video, record the color of flame produced by each of the metals. Use the chart provided to find the approximate wavelength of the light of each flame using the chart.

- Before beginning, record the atomic number of the metal in each salt listed below (the metal is the first element listed).
- Use the equation c = n · λ (speed of light = frequency x wavelength) to calculate the frequency.
  Be sure to convert the wavelength of meters before you put it into the equation. (1 m = 1 x 10° nm)
- Use the frequency in the equation E = h · v (h = 6.63 x 10<sup>-34</sup> J·s ) to calculate the energy of the light.

\*\*\* You must show your work on all calculations to receive credit! Take a picture of your work and upload it to Canvas with your Lab. You can submit more than one document. \*\*\*

Color	Wavelength (nanometers)
Red Light	~650 nm
Orange Light	~590 nm
Yelllow Light	~570 nm
Green Light	~510 nm
Blue Light	~475 nm
Indigo Light	~445 nm
Violet Light	~400 nm



Metal Ion Tested	Atomic Number	Color of Flame	Wavelength (m)	Erequency (Hz)	Energy (J)
KCI	19	violet	4.00×10^-7m	7.5×10^14Hz	4.97×10^/-19
CuCl <sub>2</sub>	29	green	5.10×10^-7m	5.9x10^14Hz	3.91×10^-19
CaCl <sub>2</sub>	20	orange	5.90×10*-7m	5.1×10^14Hz	3.38×10^-19
NaCl	11	yellow	5.70×10^-7m	5.3×10*14Hz	3.51×10^-19
SrCl <sub>2</sub>	38	red	6.50×10^-7m	4.6x10^14Hz	3.05×10*-19
LiCI	3	red	6.50×10^-7m	4.6x10^14Hz	3.05×10^-19
			1		

Part 2- Describe the incandescent and fluorescent lights and how they look different through the spectrum filter.

## <u>Virtual Chem Lab 5 Atomic Emission Spectra</u>

Ying Liu

#### **Virtual Chem Lab 5 Atomic Emission Spectra:**

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presentation Mathematics beyond algebra is kept to a minimum but for the interested student in this edition we provide an expanded discussion of measurement uncertainty that uses elementary calculus although a formula approach can be used with no loss of context Unique among all instrumental analysis texts we explicitly discuss safety up front in Chapter 2 The presentation intentionally avoids a finger wagging thou shalt not approach in favor of a how to discussion of good laboratory and industrial practice It is focused on hazards and remedies that might be encountered in the use of instrumentation Among the new topics introduced in this edition are Photoacoustic spectroscopy Cryogenic NMR probes and actively shielded magnets The nature of mixtures in the context of separations Troubleshooting and leaks in high vacuum systems such as mass spectrometers Instrumentation laboratory safety Standard reference materials and standard reference data In addition the authors have included many instrument manufacturer s websites which contain extensive resources We have also included many government websites and a discussion of resources available from National Measurement Laboratories in all industrialized countries Students are introduced to standard methods and protocols developed by regulatory agencies and consensus standards organizations in this context as well ERDA Research Abstracts, 1976 Cumulated Index Medicus .1992 ERDA Energy Research Abstracts, 1983 Scientific and Technical Aerospace Reports, 1991-07 Nuclear Energy Research Abstracts ,1989 Fullerene Research 1985: 1993 Tibor Braun.H Science Abstracts ,1976 Maczelka, Andras Peter Schubert, L. Vasvari, 1995-03-31 This volume contains very carefully compiled material presenting bibliographic descriptions of approximately 3500 papers with a computer generated index on authors subject headings corporate addresses and journals There are many on line services available on fullerenes but they serve mainly current awareness functions none of them is selectively complete and carefully indexed and none can replace a complete retrospective bibliography which most researchers in the field would want to have on hand in their laboratories and offices Chemical Abstracts ,1991 Bibliography of Mass Spectroscopy Literature for 1971, 1973 *Air Pollution Abstracts* 

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- 1. Understanding the eBook Virtual Chem Lab 5 Atomic Emission Spectra
  - The Rise of Digital Reading Virtual Chem Lab 5 Atomic Emission Spectra
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Virtual Chem Lab 5 Atomic Emission Spectra
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Virtual Chem Lab 5 Atomic Emission Spectra
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Virtual Chem Lab 5 Atomic Emission Spectra
  - Personalized Recommendations
  - Virtual Chem Lab 5 Atomic Emission Spectra User Reviews and Ratings
  - Virtual Chem Lab 5 Atomic Emission Spectra and Bestseller Lists
- 5. Accessing Virtual Chem Lab 5 Atomic Emission Spectra Free and Paid eBooks

- Virtual Chem Lab 5 Atomic Emission Spectra Public Domain eBooks
- Virtual Chem Lab 5 Atomic Emission Spectra eBook Subscription Services
- Virtual Chem Lab 5 Atomic Emission Spectra Budget-Friendly Options
- 6. Navigating Virtual Chem Lab 5 Atomic Emission Spectra eBook Formats
  - o ePub, PDF, MOBI, and More
  - Virtual Chem Lab 5 Atomic Emission Spectra Compatibility with Devices
  - Virtual Chem Lab 5 Atomic Emission Spectra Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Virtual Chem Lab 5 Atomic Emission Spectra
  - Highlighting and Note-Taking Virtual Chem Lab 5 Atomic Emission Spectra
  - Interactive Elements Virtual Chem Lab 5 Atomic Emission Spectra
- 8. Staying Engaged with Virtual Chem Lab 5 Atomic Emission Spectra
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Virtual Chem Lab 5 Atomic Emission Spectra
- 9. Balancing eBooks and Physical Books Virtual Chem Lab 5 Atomic Emission Spectra
  - Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Virtual Chem Lab 5 Atomic Emission Spectra
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Virtual Chem Lab 5 Atomic Emission Spectra
  - Setting Reading Goals Virtual Chem Lab 5 Atomic Emission Spectra
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Virtual Chem Lab 5 Atomic Emission Spectra
  - Fact-Checking eBook Content of Virtual Chem Lab 5 Atomic Emission Spectra
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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