

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 $c = \lambda \cdot \nu$ (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. ($1 \text{ m} = 1 \times 10^9 \text{ nm}$)
- Use the frequency in the equation $E = h \cdot \nu$ ($h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$) 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
Yellow 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)	Frequency (Hz)	Energy (J)
KCl	19	violet	$4.00 \times 10^{-7} \text{ m}$	$7.5 \times 10^{14} \text{ Hz}$	4.97×10^{-19}
CuCl ₂	29	green	$5.10 \times 10^{-7} \text{ m}$	$5.9 \times 10^{14} \text{ Hz}$	3.91×10^{-19}
CaCl ₂	20	orange	$5.90 \times 10^{-7} \text{ m}$	$5.1 \times 10^{14} \text{ Hz}$	3.38×10^{-19}
NaCl	11	yellow	$5.70 \times 10^{-7} \text{ m}$	$5.3 \times 10^{14} \text{ Hz}$	3.51×10^{-19}
SrCl ₂	38	red	$6.50 \times 10^{-7} \text{ m}$	$4.6 \times 10^{14} \text{ Hz}$	3.05×10^{-19}
LiCl	3	red	$6.50 \times 10^{-7} \text{ m}$	$4.6 \times 10^{14} \text{ Hz}$	3.05×10^{-19}

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

Atomic Emission Spectra Lab Answers

Léo Pomar



Atomic Emission Spectra Lab Answers:

Reviewing **Atomic Emission Spectra Lab Answers**: 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 truly astonishing. Within the pages of "**Atomic Emission Spectra Lab Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve 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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Table of Contents Atomic Emission Spectra Lab Answers

1. Understanding the eBook Atomic Emission Spectra Lab Answers
 - The Rise of Digital Reading Atomic Emission Spectra Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Atomic Emission Spectra Lab Answers
 - 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 Atomic Emission Spectra Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Atomic Emission Spectra Lab Answers
 - Personalized Recommendations
 - Atomic Emission Spectra Lab Answers User Reviews and Ratings
 - Atomic Emission Spectra Lab Answers and Bestseller Lists

5. Accessing Atomic Emission Spectra Lab Answers Free and Paid eBooks
 - Atomic Emission Spectra Lab Answers Public Domain eBooks
 - Atomic Emission Spectra Lab Answers eBook Subscription Services
 - Atomic Emission Spectra Lab Answers Budget-Friendly Options
6. Navigating Atomic Emission Spectra Lab Answers eBook Formats
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 - Atomic Emission Spectra Lab Answers Compatibility with Devices
 - Atomic Emission Spectra Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Atomic Emission Spectra Lab Answers
 - Highlighting and Note-Taking Atomic Emission Spectra Lab Answers
 - Interactive Elements Atomic Emission Spectra Lab Answers
8. Staying Engaged with Atomic Emission Spectra Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Atomic Emission Spectra Lab Answers
9. Balancing eBooks and Physical Books Atomic Emission Spectra Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Atomic Emission Spectra Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Atomic Emission Spectra Lab Answers
 - Setting Reading Goals Atomic Emission Spectra Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Atomic Emission Spectra Lab Answers
 - Fact-Checking eBook Content of Atomic Emission Spectra Lab Answers
 - 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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