

## 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	$4.00 \times 10^{-7} \text{ m}$	$7.5 \times 10^{14} \text{ Hz}$	$4.97 \times 10^{-19} \text{ J}$
CuCl <sub>2</sub>	29	green	$5.10 \times 10^{-7} \text{ m}$	$5.9 \times 10^{14} \text{ Hz}$	$3.91 \times 10^{-19} \text{ J}$
CaCl <sub>2</sub>	20	orange	$5.90 \times 10^{-7} \text{ m}$	$5.1 \times 10^{14} \text{ Hz}$	$3.38 \times 10^{-19} \text{ J}$
NaCl	11	yellow	$5.70 \times 10^{-7} \text{ m}$	$5.3 \times 10^{14} \text{ Hz}$	$3.51 \times 10^{-19} \text{ J}$
SrCl <sub>2</sub>	38	red	$6.50 \times 10^{-7} \text{ m}$	$4.6 \times 10^{14} \text{ Hz}$	$3.05 \times 10^{-19} \text{ J}$
LiCl	3	red	$6.50 \times 10^{-7} \text{ m}$	$4.6 \times 10^{14} \text{ Hz}$	$3.05 \times 10^{-19} \text{ J}$

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

# Atomic Emission Spectra Lab Answers

**R Sandford**



## Atomic Emission Spectra Lab Answers:

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**General Chemistry** Ralph H. Petrucci, 2007 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing precision of argument and precise and detailed treatment of the subject Popular and innovative features include Feature Problems follow up A and B Practice Exercises to accompany every in chapter Example Focus On application boxes and new Keep in Mind marginal notes Every new copy of the Ninth Edition comes with a Student MediaPak which includes access to the Companion Website with GradeTracker available at <http://www.prenhall.com/petrucci> the Student Accelerator CD and the Virtual ChemLab Workbook and CD This package includes Basic Media Pack Wrap Companion Website Grade Tracker Access Code Card Virtual ChemLab General Chemistry Student Lab Manual Workbook

**INIS Atomindex**, 1988 **U.S. Government Research & Development Reports**, 1970 **Bibliography of Scientific and Industrial Reports**, 1965-07 Energy Research Abstracts, 1985 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e.g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

**Chemical Abstracts**, 1920 Bibliography of Scientific and Industrial Reports, 1967-03 **Metals Abstracts**, 1997 Laboratory Practice, 1986 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976-10 *Government Reports Announcements & Index*, 1982 **Journal of the Chemical Society**, 1924 Quarterly Journal of the Chemical Society of London Chemical Society (Great Britain), 1924 **Journal of the Chemical Society** Chemical Society (Great Britain), 1924 **Government Reports Announcements**, 1971 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994

**Science Abstracts**, 1964

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