

In this experiment a spectroscope is used to look at the emission spectrum of an unknown metal. A sodium lamp is used as a calibration light source to determine the d value of the diffraction grating of the spectroscope.

The following experimental data are given:

Sodium, the calibration source, emission wavelength = 555.8 nm.

Angle of light diffraction using the sodium lamp = 18.21°

Angle of diffraction using unknown metal source = 17.15°

$$\left. \begin{array}{l} 555.8 \text{ nm} \\ 18.21^\circ \\ 17.15^\circ \end{array} \right\} \sin I = \frac{d}{D}$$

Refer to Experiment 6 in the Chemistry 1110 lab manual for the equation relating the d value of the spectroscope to the wavelength and angle of diffraction and also for the Rydberg equation.

1. Watch the video in Stemble.
2. Using the experimental data determine:
 - (a) the distance (in nm) between the lines of the diffraction grating using the calibration source, the sodium lamp, and show the units.
 - (b) the wavelength (in nm) of the radiation from the unknown metal source and show the units.
3. Using the Rydberg equation, and the value of the Rydberg constant given in the laboratory manual, calculate the wavelength of the radiation emitted when an electron falls from energy level 3 to energy level 1. (Calculate the reciprocal of the wavelength directly from the equation and then take the reciprocal of that value.) Calculate the wavelength in nm. Show the units.

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