

# Crystal Violet Indicator

Learn how to make crystal violet indicator solution and find out its pH range.

## Materials

Crystal Violet Powder (item #856150)  
Distilled Water (item #858621)  
Stir Bar  
Amber Bottle  
Magnetic Stir Plate (item #701023)  
Erlenmeyer Flask, 500-mL (item #731030)  
Label

### Don't want to make it yourself?

Find crystal violet indicator solution at [Carolina.com](http://Carolina.com)

#### Item Numbers

856206, 856207

## Procedure

1. Dissolve 1 g of crystal violet in 80 mL of distilled water and dilute to 100 mL.

## Label Information

Crystal Violet Indicator, 1% Aqueous

Eye irritant

Date Prepared: \_\_\_\_\_

Initials of Preparer: \_\_\_\_\_

Health Risk: 2

Flammability: 1

Reactivity: 1

## Applications

Crystal violet indicator has a pH range of 0.8 (yellow) to 2.6 (blue-violet).

## Reference

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 146.