

Colorimetric Analysis Lab Answers

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NATALIE GRIFFIN

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Chemical Formula = C₉H₈O₄. ASA can be hydrolyzed 3 rapidly in basic (OH⁻) solution to yield a salicylate fragment that can then hook onto a Fe⁺³ ion to form the soluble tetraaqua-salicylate-iron (III) complex ion. The presence of this ion in aqueous solution gives it an intensely purple color.

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In a colorimetric chemical test the intensity of the color from the reaction must be proportional to the concentration of the substance being tested. To avoid these sources of error, a colorimeter or spectrophotometer can be used to photoelectrically measure the amount of colored light absorbed by a colored sample in reference to a colorless sample (blank).

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