

Iodine-Potassium Iodide

Learn how to make iodine-potassium iodide solution and how it is used to detect starch.

Materials

Iodine (item #868984)
Potassium Iodide (item #883789)
Distilled Water (item #858621)
Mortar and Pestle (item #742892)
Stir Bar
Magnetic Stir Plate (item #701023)
Erlenmeyer Flask, 500-mL (item #731030)
Label

Don't want to make it yourself?

Find IKI solution at Carolina.com

Item Numbers

869051, 869053, 869055, 869057

Procedure

1. Dissolve 2 g of potassium iodide in 25 mL of water.
2. Grind 1 g iodine and stir into solution.
3. Bring the total volume up to 100 mL with distilled water.

Notes

- Store solution in dark-colored bottle.
- Use for qualitative analysis, not quantitative analysis.

Label Information

Iodine-Potassium Iodide Solution

Skin irritant

Date Prepared: _____
Initials of Preparer: _____
Health Risk: 1
Flammability: 0
Reactivity: 1

Applications

Iodine-potassium iodide solution is used to test for the presence of starch in carbohydrates. Additionally, it is used as a blockade to mitigate the effects of radioactive poisoning.

Reference

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 176.