



Edition: BP 2025 (Ph. Eur. 11.6 update)

## Alcoholic Iodine Solution

### [General Notices](#)

Alcoholic Iodine Cutaneous Solution

### DEFINITION

Alcoholic Iodine Solution is a *cutaneous solution*.

Iodine	25 g
Potassium Iodide	25 g
Purified Water	25 mL
Ethanol (90 per cent)	Sufficient to produce 1000 mL

### Extemporaneous preparation

The following directions apply.

Dissolve the Potassium Iodide and the Iodine in the Purified Water and add sufficient Ethanol (90 per cent) to produce 1000 mL.

*The solution complies with the requirements stated under Liquids for Cutaneous Application and with the following requirements.*

### Content of iodine, I

2.4 to 2.7% w/v.

### Content of potassium iodide, KI

2.4 to 2.7% w/v.

### Ethanol content

83 to 88% v/v, [Appendix VIII E](#).

## ASSAY

### For iodine

Dilute 10 mL with 20 mL of [water](#) and titrate with 0.1M [sodium thiosulfate VS](#). Each mL of 0.1M [sodium thiosulfate VS](#) is equivalent to 12.69 mg of I.

### For potassium iodide

To 10 mL add 30 mL of [water](#) and 50 mL of [hydrochloric acid](#) and titrate with [0.05M potassium iodate VS](#) until the dark brown solution which is produced becomes pale brown. Add 1 mL of [amaranth solution](#) and continue the titration until the red colour just changes to pale yellow. From the number of mL of [0.05M potassium iodate VS](#) required subtract half the number of mL of 0.1M [sodium thiosulfate VS](#) required in the Assay for iodine. Each mL of the remainder is equivalent to 16.60 mg of KI.

## STORAGE

Alcoholic Iodine Solution should be kept in a well-closed container, the materials of which are resistant to iodine.

When iodine tincture is prescribed or demanded Alcoholic Iodine Solution shall be dispensed or supplied.