



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

Phenol and Glycerol Injection

[General Notices](#)

DEFINITION

Phenol and Glycerol Injection is a sterile solution containing 5% w/v of Phenol in Glycerol that has been previously dried at 120° for 1 hour.

The injection complies with the requirements stated under Parenteral Preparations and with the following requirements.

Content of phenol, C₆H₆O

4.75 to 5.25% w/v.

CHARACTERISTICS

A pale straw-coloured, viscous solution.

IDENTIFICATION

- A. Add [bromine water](#) to a 1% w/v solution. A white precipitate is produced, which, on the continued addition of [bromine water](#), at first dissolves then reappears and becomes permanent.
- B. To 0.5 mL add 5 mL of [water](#) and 0.05 mL of [sodium nitrite solution](#) and carefully pour on to the surface of [sulfuric acid](#). A coloured zone, red above and green below, appears at the junction of the two layers.
- C. When heated on a borax bead in a naked flame, it imparts a green colour to the flame.

ASSAY

Dissolve 2 g in sufficient [water](#) to produce 50 mL, transfer 25 mL to a 500 mL glass-stoppered flask and add 50 mL of [0.05 M bromine VS](#) and 5 mL of [hydrochloric acid](#), stopper, swirl occasionally during 30 minutes and allow to stand for a further 15 minutes. Add 5 mL of a 20% w/v solution of [potassium iodide](#), taking care to avoid loss of bromine, shake thoroughly and titrate with 0.1M [sodium thiosulfate VS](#) until only a faint yellow colour remains. Add 0.1 mL of [starch mucilage](#) and 10 mL of [chloroform](#) and complete the titration with vigorous shaking. Repeat the operation without the injection. The difference between the titrations represents the amount of bromine required. Each mL of [0.05M bromine VS](#) is equivalent to 1.569 mg of C₆H₆O. Determine the [weight per mL](#) of the injection, [Appendix V G](#), and calculate the percentage w/v of C₆H₆O.

STORAGE

Phenol and Glycerol Injection should be protected from light.

LABELLING

The strength is stated as the percentage w/v of Phenol.