



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

## Oily Phenol Injection

[General Notices](#)

### DEFINITION

Oily Phenol Injection is a sterile solution containing 5% w/v of Phenol in a suitable fixed oil.

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

### Content of phenol, C<sub>6</sub>H<sub>6</sub>O

4.75 to 5.25% w/v.

### ASSAY

Dissolve 8 g in 50 mL of [ether](#) and extract with successive 10 mL quantities of 2M [sodium hydroxide](#) until extraction is complete, boil the combined extracts for 2 minutes, cool and dilute to 250 mL with [water](#). To 20 mL of this solution in a glass-stoppered flask add 30 mL of [0.05M bromine VS](#) and 6 mL of [hydrochloric acid](#), stopper, shake repeatedly during 15 minutes and allow to stand for a further 15 minutes. Add 30 mL of [dilute potassium iodide solution](#), taking care to avoid loss of bromine, and titrate the liberated iodine with 0.1M [sodium thiosulfate VS](#). 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 C<sub>6</sub>H<sub>6</sub>O. Determine the [weight per mL](#), [Appendix V G](#), and calculate the percentage w/v of C<sub>6</sub>H<sub>6</sub>O.