

Hydrochloric Acid (9 in 10,000), and prepare as directed under Injections.

Description Epinephrine Injection is a colorless, clear liquid.

It changes gradually to pale red and then to brown on exposure to air and light.

pH: 2.3 – 5.0

Identification (1) To 1 mL of Epinephrine Injection add 4 mL of water and 1 drop of iron (III) chloride TS: a deep green color is produced, and it gradually changes to red.

(2) Place 1 mL each of Epinephrine Injection in test tubes A and B, and proceed as directed in the Identification (2) under Epinephrine.

Assay Pipet 30 mL of Epinephrine Injection into a separator, add 25 mL of carbon tetrachloride, shake vigorously for 1 minute, allow the liquids to separate, and discard the carbon tetrachloride. Repeat this procedure three times. Rinse the stopper and mouth of the separator with a small amount of water. Add 0.2 mL of starch TS, then while swirling the separator add iodine TS dropwise until a persistent blue color develops, and immediately add sodium thiosulfate TS to discharge the blue color. Add 2.1 g of sodium hydrogen carbonate to the liquid in the separator, preventing it from coming in contact with the mouth of the separator, and shake until most of the sodium hydrogen carbonate dissolves. Rapidly inject 1.0 mL of acetic anhydride into the contents of the separator. Immediately stopper the separator loosely, and allow to stand until the evolution of gas ceases. Shake vigorously, allow to stand for 5 minutes, extract with six 25-mL portions of chloroform, and filter each chloroform extract through a pledget of absorbent cotton. Evaporate the combined chloroform extracts on a water bath in a current of air to 3 mL, completely transfer this residue by means of small portions of chloroform to a tared beaker, and heat again to evaporate to dryness. Dry the residue at 105°C for 30 minutes, cool in a desiccator (silica gel), and accurately measure the mass *W* (mg) of the dried residue. Dissolve in chloroform to make exactly 5 mL, and determine the optical rotation $[\alpha]_D^{20}$ using a 100-mm cell.

Amount (mg) of epinephrine (C₉H₁₃NO₃)

$$= 0.5923 \times W \times \left(0.5 + \frac{0.5 \times |[\alpha]_D^{20}|}{93} \right)$$

Containers and storage Containers—Hermetic containers, and colored containers may be used.

Storage—Light-resistant.

Epinephrine Solution

Adrenaline Hydrochloride Solution

Epinephrine Hydrochloride Solution

Eprenamine Hydrochloride Solution

エピネフリン液

Epinephrine Solution contains not less than 0.085 w/v% and not more than 0.115 w/v% of epinephrine (C₉H₁₃NO₃: 183.20)

Method of preparation

Epinephrine	1 g
Sodium Chloride	8.5 g
Diluted Hydrochloric Acid (9 in 100)	10 mL
Stabilizer	a suitable quantity
Preservative	a suitable quantity
Purified Water	a sufficient quantity
To make 1000 mL	

Prepare by mixing the above ingredients.

Description Epinephrine Solution is clear, colorless or slightly reddish liquid.

It changes gradually to pale red and then to brown on exposure to air and light.

pH: 2.3 – 5.0

Identification Proceed as directed in the Identification under Epinephrine Injection.

Assay Proceed as directed in the Assay under Epinephrine Injection.

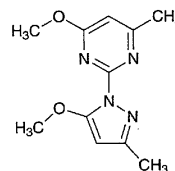
Containers and storage Containers—Tight containers.

Storage—Light-resistant.

Epirizole

Mepirizole

エピリゾール



C₁₁H₁₄N₄O₂: 234.25

4-Methoxy-2-(5-methoxy-3-methyl-1H-pyrazol-1-yl)-6-methylpyrimidine [18694-40-1]

Epirizole, when dried, contains not less than 99.0% of C₁₁H₁₄N₄O₂.

Description Epirizole occurs as white crystals or crystalline powder. It is odorless, and has a bitter taste.

It is very soluble in methanol and in acetic acid (100), freely soluble in ethanol (95), and sparingly soluble in water and in diethyl ether.

It dissolves in dilute hydrochloric acid and in sulfuric acid.

The pH of a solution of Epirizole (1 in 100) is between 6.0 and 7.0.

Identification (1) To 0.1 g of Epirizole add 0.1 g of vanillin, 5 mL of water and 2 mL of sulfuric acid, and mix with shaking for a while: a yellow precipitate is formed.

(2) Dissolve 0.1 g of Epirizole in 10 mL of water, and add 10 mL of 2,4,6-trinitrophenol TS: a yellow precipitate is produced. Collect the precipitate by filtration, wash with 50 mL of water, and dry at 105°C for 1 hour: it melts between 163°C and 169°C.