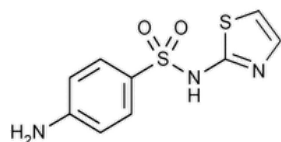


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Sulfathiazole



$C_9H_9N_3O_2S_2$ 255.32

Benzenesulfonamide, 4-amino-N-2-thiazolyl-

N^1 -2-Thiazolylsulfanilamide CAS RN®: 72-14-0; UNII: Y7FKS2XWQH.

» Sulfathiazole contains not less than 99.0 percent and not more than 100.5 percent of $C_9H_9N_3O_2S_2$, calculated on the dried basis.

Packaging and storage—Preserve in well-closed, light-resistant containers.

USP REFERENCE STANDARDS (11).—

[USP Sulfathiazole RS](#)

Identification—

Change to read:

A: ▲ [Spectroscopic Identification Tests \(197\)](#), [Infrared Spectroscopy: 197K](#) ▲ (CN 1-May-2020) ·

B: To 100 mg add 5 mL of 3 N hydrochloric acid, and boil gently for about 5 minutes. Cool in an ice bath, add 4 mL of sodium nitrite solution (1 in 100), dilute with water to 10 mL, and place the mixture in an ice bath for 10 minutes. To 5 mL of the cooled mixture add a solution of 50 mg of 2-naphthol in 2 mL of sodium hydroxide solution (1 in 10): an orange-red precipitate is formed, and it darkens on standing.

MELTING RANGE, Class I (741): between 200° and 204°.

Acidity—Digest 2 g with 100 mL of water at about 70° for 5 minutes, cool at once to about 20°, and filter. Titrate 25 mL of the filtrate with 0.10 N sodium hydroxide, using 2 drops of phenolphthalein TS as the indicator: not more than 0.5 mL is required to produce a pink color. (Retain the remainder of the filtrate for the tests for [Chloride \(221\)](#) and for [Sulfate \(221\)](#).)

LOSS ON DRYING (731)—Dry it at 105° for 2 hours: it loses not more than 0.5% of its weight.

RESIDUE ON IGNITION (281): not more than 0.1%.

CHLORIDE (221)—A 25-mL portion of the filtrate prepared as directed in the test for *Acidity* shows no more chloride than corresponds to 0.10 mL of 0.020 N hydrochloric acid (0.014%).

SULFATE (221)—A 25-mL portion of the filtrate prepared as directed in the test for *Acidity* shows no more sulfate than corresponds to 0.2 mL of 0.02 N sulfuric acid (0.04%).

ORDINARY IMPURITIES (466)—

Test solution: methanol.

Standard solution: methanol.

Eluant: a mixture of 1-propanol and 1 N ammonium hydroxide (22:3).

Visualization: 1.

Assay—Proceed with Sulfathiazole as directed under [Nitrite Titration \(451\)](#). Each mL of 0.1 M sodium nitrite is equivalent to 25.53 mg of $C_9H_9N_3O_2S_2$.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
SULFATHIAZOLE	Documentary Standards Support	SM12020 Small Molecules 1

Topic/Question	Contact	Expert Committee
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM12020 Small Molecules 1

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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