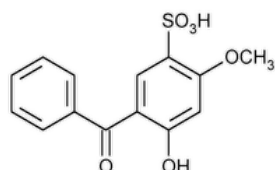


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Sulisobenzene



$C_{14}H_{12}O_6S$ 308.31

Benzenesulfonic acid, 5-benzoyl-4-hydroxy-2-methoxy-

5-Benzoyl-4-hydroxy-2-methoxybenzenesulfonic acid CAS RN®: 4065-45-6; UNII: 1W6L629B4K.

» Sulisobenzene contains not less than 97.0 percent and not more than 103.0 percent of $C_{14}H_{12}O_6S$, calculated on the anhydrous basis.

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

USP REFERENCE STANDARDS (11).—

[USP Sulisobenzene RS](#)

Change to read:

▲ **SPECTROSCOPIC IDENTIFICATION TESTS** (197), *Ultraviolet-Visible Spectroscopy*: **197U** ▲ (CN 1-May-2020) —

Solution: 10 µg per mL.

Medium: water.

Absorptivities, calculated on the anhydrous basis, do not differ by more than 3.0%.

WATER DETERMINATION, Method I (921): not more than 2.0%.

Assay—Accurately weigh about 0.25 g of Sulisobenzene, and dissolve in 5 mL of water in a conical flask. Add 50 mL of dehydrated isopropyl alcohol, titrate with 0.1 N tetrabutylammonium hydroxide VS, and determine the two endpoints potentiometrically. V_1 and V_2 are the volumes, in mL, of titrant needed to reach the first and second endpoints, respectively. To determine the blank value caused by tertiary amines present as impurities in the titrant, dissolve $V_1/5$ mL of 0.5 N hydrochloric acid VS in 50 mL of dehydrated isopropyl alcohol, and subsequently add $(5 - V_1/5)$ mL of water. Titrate with 0.1 N tetrabutylammonium hydroxide VS, and determine the two endpoints potentiometrically. V_{1B} and V_{2B} are the volumes, in mL, of titrant needed to reach the first and second endpoints, respectively. The blank value V_{BV} , in mL, is obtained by the formula:

$$V_{2B} - V_{1B}$$

Calculate the percentage of $C_{14}H_{12}O_6S$ in the portion of Sulisobenzene taken by the formula:

$$308.31C[2V_1 - (V_2 - V_{BV})](1/W)(0.001)100$$

in which 308.31 is the molecular weight of Sulisobenzene; C is the concentration, in moles per L, of the 0.1 N tetrabutylammonium hydroxide VS; W is the weight, in g, of Sulisobenzene taken; 0.001 is the conversion factor for converting mL to L; and 100 is the conversion factor to percentage.

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

Topic/Question	Contact	Expert Committee
SULISOBENZENE	Documentary Standards Support	SM32020 Small Molecules 3



Documents

Document Sharing Hub

Topic/Question	Contact	Expert Committee
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

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