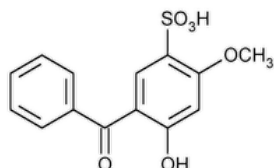


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## Sulisobenzon



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

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

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

» Sulisobenzon 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 Sulisobenzon 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 Sulisobenzon, 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 Sulisobenzon 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 Sulisobenzon;  $C$  is the concentration, in moles per L, of the 0.1 N tetrabutylammonium hydroxide VS;  $W$  is the weight, in g, of Sulisobenzon 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          |
|----------------|-----------------------------------------------|---------------------------|
| SULISOBENZON   | <a href="#">Documentary Standards Support</a> | SM32020 Small Molecules 3 |

| Topic/Question             | Contact                                                                     | Expert Committee          |
|----------------------------|-----------------------------------------------------------------------------|---------------------------|
| REFERENCE STANDARD SUPPORT | RS Technical Services<br><a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a> | SM32020 Small Molecules 3 |

Chromatographic Database Information: [Chromatographic Database](#)

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