COMPONENTS:

- (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-2,3-dimethyl-5-oxopyrazol-4-yl)-; C₁₇H₁₈N₄O₃S; [71119-16-9]
- (2) Water; H₂0; [7732-18-5]

ORIGINAL MEASUREMENTS:

Roblin, R.O., Jr.; Williams, J.H.; Winnek, P.S.; English, J. P.

J. Am. Chem. Soc. 1940, 62, 2002-5.

VARIABLES:

One temperature: 37°C

PREPARED BY:

R. Piekos

EXPERIMENTAL VALUES:

Solubility of 4-amino-N-(1-phenyl-2,3-dimethyl-5-oxopyrazol-4-yl)benzene-sulfonamide in water at 37° C is 15.6 mg/100 cm³ solution (4.35 x 10^{-4} mol dm⁻³, compiler).

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:

Excess sulfonamide in water was heated and stirred on a steam bath for 30 min. The suspension was then agitated for 24 h in a thermostat at 37°C. A sample of the satd soln was withdrawn through a glass filter, dild, and analyzed by the Marshall method (1) using a General Electric recording spectrophotometer for comparing the colors developed with those of the standards.

SOURCE AND PURITY OF MATERIALS:

The sulfonamide, mp 260-1°C (dec, cor), was prepd by the authors. Anal: %C 57.5 (calcd 57.0); %H 5.1 (5.0); %N 16.1 (15.6). Purity of the water was not specified.

ESTIMATED ERROR:

Nothing specified

REFERENCES:

Bratton, A.C.; Marshall, E.K., Jr.
J. Pharmacol. 1939, 66, 4.