COMPONENTS:

- (1) Benzenesulfonamide, 4-amino-N-1H-1,2,4triazol-3-yl-; $C_8H_9N_5O_2S$; [51732-39-9]
- (2) Water; H₂0; [7732-18-5]

ORIGINAL MEASUREMENTS:

Anderson, G. W.; Faith, H.E.; Marson, H. W.; Winnek, P. S.; Roblin, R. O., Jr. J. Am. Chem. Soc. 1942, 64, 2902-5.

VARIABLES:

One temperature: 37°C

PREPARED BY:

R. Piekos

EXPERIMENTAL VALUES:

Solubility of 4-amino-N-1H-1,2,4-triazol-3-ylbenzenesulfonamide in water at 37° C is 60 mg/100 cm³ solution (2.5 × 10^{-3} 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. A sample of the satd soln was withdrawn through a glass filter, dild, and analyzed by the Marshall method (1) using a General Electric recording spectrophotometer for comparing the colors developed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 195-6°C (cor), was prepd by the authors. Anal: %C 40.6 (calcd 40.2); %H 3.8 (3.8); %N 29.1 (29.3).

Purity of the water was not specified.

ESTIMATED ERROR:

Nothing specified.

REFERENCES:

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