

<b>COMPONENTS:</b> (1) Benzenesulfonamide, 4-amino-N-(5-pentyl-1,3,4-thiadiazol-2-yl)-; $C_{13}H_{18}N_4O_2S_2$ ; [71119-30-7] (2) Phosphoric acid, disodium salt; $Na_2HPO_4$ ; [7558-94-4] (3) 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (citric acid); $C_6H_8O_7$ ; [77-92-9] (4) Water; $H_2O$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Alric, R.; Puech, R. <i>J. Pharmacol. (Paris)</i> <u>1971</u> , <i>2</i> (2), 141-54.
<b>VARIABLES:</b> One temperature: 37°C; one pH: 3.5	<b>PREPARED BY:</b> R. Piekos
<b>EXPERIMENTAL VALUES:</b>  <p style="text-align: center;">Intrinsic solubility<sup>a</sup> of 4-amino-N-(5-pentyl-1,3,4-thiadiazol-2-yl)benzenesulfonamide in a solution of 0.025M in <math>Na_2HPO_4</math> and 0.05M in citric acid, of pH 3.5, at 37°C is <math>(1.12 \pm 0.04) \times 10^{-4}</math> mol liter<sup>-1</sup>.</p> <p><sup>a</sup>Under "intrinsic solubility" a minimum on the solubility - pH curve is meant which corresponds to the limiting concentration of the undissociated form of the sulfonamide.</p>	
<b>AUXILIARY INFORMATION</b>	
<b>METHOD/APPARATUS/PROCEDURE:</b> The soln was equilibrated for 48 h in a thermostat under occasional stirring. Samples were withdrawn through a 1- $\mu$ membrane filter, dild with 0.155M NaOH soln to ensure total dissoecn of the sulfonamide, and its content was detd by UV spectrophotometry.	<b>SOURCE AND PURITY OF MATERIALS:</b> Nothing specified.  <b>ESTIMATED ERROR:</b> Soly: std error of 8 measurements was $\pm 0.04 \times 10^{-4}$ mol liter <sup>-1</sup> (authors). Temp: $\pm 0.1^\circ C$ (authors). pH : accuracy $\pm 0.5$ pH unit (authors).  <b>REFERENCES:</b>