

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-[5-butyl-1,3,4-thiadiazol-2-yl]-; $C_{12}H_{16}N_4O_2S_2$; [71119-31-8] (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]	ORIGINAL MEASUREMENTS: Alric, R.; Puech, R. <i>J. Pharmacol. (Paris)</i> <u>1971</u> , 2(2), 141-54.
VARIABLES: One temperature: 37°C; one pH: 3.5	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p style="text-align: center;">Intrinsic solubility^a of 4-amino-N-[5-butyl-1,3,4-thiadiazol-2-yl]benzenesulfonamide in a solution 0.025M in Na_2HPO_4 and 0.05M in citric acid, of pH 3.5, at 37°C is $(2.71 \pm 0.06) \times 10^{-4}$ mol liter⁻¹.</p> <p>^aUnder "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>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: The soln was equilibrated for 48 h in a thermostat under occasional stirring. Samples were withdrawn through a 1- μ membrane filter, dild with 0.155M NaOH soln to ensure total dissoecn of the sulfonamide, and its content was detd by UV spectrophotometry.	SOURCE AND PURITY OF MATERIALS: Nothing specified. ESTIMATED ERROR: Soly: std error of 8 measurements was $\pm 0.06 \times 10^{-4}$ mol liter ⁻¹ (authors). pH : accuracy of ± 0.5 pH unit (authors). Temp: $\pm 0.1^\circ C$ (authors). REFERENCES: