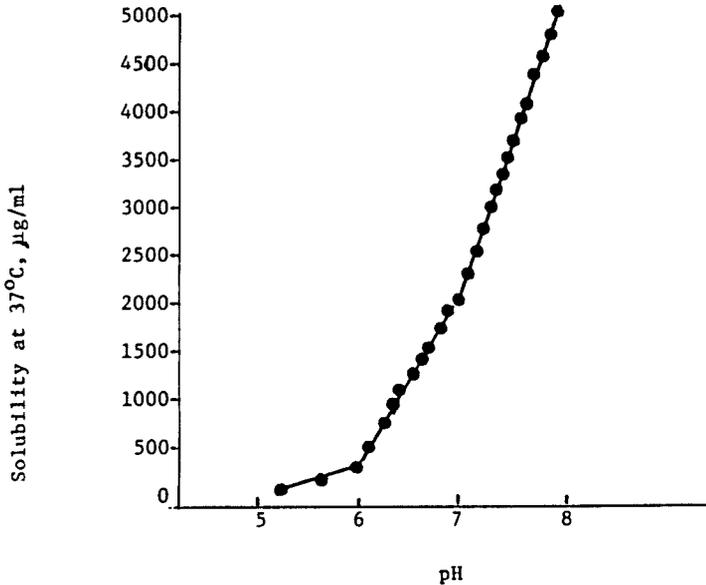


COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Yamasaki, M.; Aoki, M.; Kamada, A.; Yata, N. <i>Yakuzaigaku</i> <u>1967</u> , 27(1), 37-40.
VARIABLES: One temperature: 30°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: Solubility of sulfaphenazole in water at 30°C is 0.48 mmol/L (0.15 g dm ⁻³ , compiler).	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Sulfaphenazole (0.5 g) was placed in an L-shaped tube together with 20 ml of water. The mixt was shaken in a thermostat until equilibrium was attained. The sulfaphenazole was assayed in the supernatant spectrophotometrically at 545 nm on a Beckman DU spectrophotometer. The results were taken from a calibration graph.	SOURCE AND PURITY OF MATERIALS: Nothing specified
	ESTIMATED ERROR: Soly: not specified Temp: ±1°C (authors)
	REFERENCES:

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Hydrochloric acid; HCl; [7647-01-0] (3) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Ogata, H.; Shibasaki, T.; Inoue, T.; Ejima, A. <i>Chem. Pharm. Bull.</i> <u>1979</u> , <i>27(6)</i> , 1281-6.
VARIABLES: One temperature: 37°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of sulfaphenazole in 0.1N HCl at 37°C is 1.199 mg/ml (3.814×10^{-3} mol dm^{-3}, compiler).</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: A centrifuge tube contg 30 ml of 0.1N HCl and 0.5-3.0 g of the sulfaphenazole powder was tightly sealed and shaken at 37°C. The concn of the dissolved drug was detd spectrophotometrically following filtration (type EH, pore size 0.5 μm), and the procedure was repeated every 24 h until a const concn was obtained. A Millipore filter was used for filtration.	SOURCE AND PURITY OF MATERIALS: Comm available 500-mg uncoated tablets of sulfaphenazole were used. Hydrochloric acid was of reagent grade. ESTIMATED ERROR: Nothing specified REFERENCES:

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Phosphoric acid, disodium salts; Na_2HPO_4 ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4 ; [7778-77-0] (4) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Riess, W. <i>Intern. Congr. Chemotherapy, Proc. 3rd, Stuttgart 1963, 7, 627-32.</i>
VARIABLES: One temperature: 20°C; one pH: 7.4	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of sulfaphenazole in a M/15 Sørensen buffer solution (pH 7.4) at 20°C is 130 mg% (4.14×10^{-3} mol dm^{-3} solution, compiler).</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: <p>Sørensen buffer solns of pH varying between 7 and 8 were prepd, satd with sulfaphenazole at 20°C, their pH was measured at equilibrium, and the sulfaphenazole was assayed colorimetrically. The measured pH values were plotted against concn, and the soly at pH 7.4 was detd by interpolation (personal communication).</p>	SOURCE AND PURITY OF MATERIALS: Nothing specified
	ESTIMATED ERROR: Nothing specified
	REFERENCES:

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Phosphoric acid, disodium salt; Na_2HPO_4 ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4 ; [7778-77-0] (4) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N, <i>Yakusaigaku</i> <u>1967</u> , <i>27(1)</i> , 37-40.
VARIABLES: One temperature: 30°C; one pH. 7.4	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: Solubility of sulfaphenazole in a phosphate buffer solution of pH 7.4 ^a ($\mu = 0.17$) at 30°C is 6.63 mmol/L (2.01 g dm ⁻³ , compiler). ^a At the end of experiment the pH was 7.1	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Sulfaphenazole (0.5 g) was placed in an L-shaped tube together with 20 ml of the buffer soln. The mixt was shaken in a thermostat until equilibrium was attained. The sulfaphenazole was assayed in the supernatant spectrophotometrically at 545 nm on a Beckman DU spectrophotometer. The results were taken from a calibration graph.	SOURCE AND PURITY OF MATERIALS: Nothing specified ESTIMATED ERROR: Soly and pH: not specified Temp: $\pm 1^\circ C$ (authors) REFERENCES:

<p>COMPONENTS:</p> <p>(1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9]</p> <p>(2) Phosphoric acid, disodium salt; Na_2HPO_4; [7558-94-4]</p> <p>(3) 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (citric acid); $C_6H_8O_7$; [77-92-9]</p> <p>(4) Water; H_2O; [7732-18-5]</p>	<p>ORIGINAL MEASUREMENTS:</p> <p>Bertazzoli, C.; Buogo, A.; Ciceri, C. Ghione, M.; Turolla, E.; Zavaglio, V. <i>Minerva Med.</i> <u>1961</u>, <i>52</i>(40), 1789-96.</p>																												
<p>VARIABLES:</p> <p>pH</p>	<p>PREPARED BY:</p> <p>R. Piekos</p>																												
<p>EXPERIMENTAL VALUES:</p>  <table border="1"> <caption>Estimated data points from the solubility graph</caption> <thead> <tr> <th>pH</th> <th>Solubility at 37°C, µg/ml</th> </tr> </thead> <tbody> <tr><td>5.2</td><td>100</td></tr> <tr><td>5.5</td><td>200</td></tr> <tr><td>5.8</td><td>300</td></tr> <tr><td>6.0</td><td>500</td></tr> <tr><td>6.2</td><td>800</td></tr> <tr><td>6.4</td><td>1200</td></tr> <tr><td>6.6</td><td>1600</td></tr> <tr><td>6.8</td><td>2100</td></tr> <tr><td>7.0</td><td>2600</td></tr> <tr><td>7.2</td><td>3200</td></tr> <tr><td>7.4</td><td>3800</td></tr> <tr><td>7.6</td><td>4500</td></tr> <tr><td>7.8</td><td>5000</td></tr> </tbody> </table>		pH	Solubility at 37°C, µg/ml	5.2	100	5.5	200	5.8	300	6.0	500	6.2	800	6.4	1200	6.6	1600	6.8	2100	7.0	2600	7.2	3200	7.4	3800	7.6	4500	7.8	5000
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7.8	5000																												
<p>AUXILIARY INFORMATION</p>																													
<p>METHOD/APPARATUS/PROCEDURE:</p> <p>The soly of sulfaphenazole in McIlvaine's Na_2HPO_4 - citric acid buffer solns was detd under agitation at 37°C. No details were given.</p>	<p>SOURCE AND PURITY OF MATERIALS:</p> <p>Nothing specified</p>																												
	<p>ESTIMATED ERROR:</p> <p>Nothing specified</p>																												
	<p>REFERENCES:</p>																												

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Methane, trichloro- (chloroform); $CHCl_3$; [67-66-3]	ORIGINAL MEASUREMENTS: Riess, W. <i>Intern. Congr. Chemotherapy, Proc., 3rd, Stuttgart 1963, 1, 627-32.</i>
VARIABLES: One temperature: 20°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of sulfaphenazole in chloroform at 20°C is 247 mg% (7.86×10^{-3} mol dm⁻³ solution, compiler).</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Nothing specified	SOURCE AND PURITY OF MATERIALS: Nothing specified ESTIMATED ERROR: Nothing specified REFERENCES:

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (sulfaphenazole); $C_{15}H_{14}N_4O_2S$; [526-08-9] (2) Methane, trichloro- (chloroform); $CHCl_3$; [67-66-3]	ORIGINAL MEASUREMENTS: Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N. <i>Yakuzaiigaku</i> 1967, 27(1), 37-40.
VARIABLES: One temperature: 30°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: Solubility of sulfaphenazole in chloroform at 30°C is 9.97 mmol/L (3.01 g dm ⁻³ , compiler).	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Sulfaphenazole (0.5 g) was placed in an L-shaped tube together with 20 ml of chloroform. The mixt was shaken in a thermostat until equilibrium was attained. The sulfaphenazole was assayed in the supernatant spectrophotometrically at 545 nm on a Beckman DU spectrophotometer. The results were taken from a calibration graph.	SOURCE AND PURITY OF MATERIALS: Nothing specified ESTIMATED ERROR: Soly: not specified Temp: ±1°C (authors) REFERENCES: