

<b>COMPONENTS:</b> (1) Acetamide, N-[(4-aminophenyl)sulfonyl]-N-(5-methyl-3-isoxazolyl)-(N <sup>1</sup> -acetylsulfamethoxazole); $C_{12}H_{13}N_3O_4S$ ; [18607-98-2] (2) Sodium chloride; NaCl; [7647-14-5] (3) Water; H <sub>2</sub> O ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Hirano, H.; Ichihashi, T.; Yamada, H. <i>Chem. Pharm. Bull.</i> <u>1981</u> , <i>29</i> (3), 817-27.
<b>VARIABLES:</b> One temperature: 37°C	<b>PREPARED BY:</b> R. Piekos
<b>EXPERIMENTAL VALUES:</b>  <p style="text-align: center;">Solubility of N<sup>1</sup>-acetylsulfamethoxazole in a 0.9% NaCl solution at 37°C is 0.076 mg/ml (<math>2.6 \times 10^{-4}</math> mol dm<sup>-3</sup>, compiler).</p>	
<b>AUXILIARY INFORMATION</b>	
<b>METHOD/APPARATUS/PROCEDURE:</b> An excess of powdered N <sup>1</sup> -acetylsulfamethoxazole was shaken well at 37°C with a 0.9% NaCl soln until attaining satn. The undissolved crystals were removed by filtration through a G5 glass filter or by centrifugation, and the concn of the solute was assayed spectrophotometrically at 289 nm, after diln with EtOH - H <sub>2</sub> O (1:1, v/v) using a Perkin Elmer UV-VIS spectrophotometer (Hitachi Co., Ltd., Tokyo).	<b>SOURCE AND PURITY OF MATERIALS:</b> N <sup>1</sup> -Acetylsulfamethoxazole was synthesized by the authors and was of medical grade. The remaining materials were of anal or reagent grade.  <b>ESTIMATED ERROR:</b> Nothing specified  <b>REFERENCES:</b>

<b>COMPONENTS:</b> (1) Acetamide, N-[(4-aminophenyl)sulfonyl]-N-(5-methyl-3-isoxazoly)-N <sup>1</sup> -acetyl-sulfamethoxazole); C <sub>12</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S; [18607-98-2] (2) Phosphoric acid, disodium salt; Na <sub>2</sub> HPO <sub>4</sub> ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH <sub>2</sub> PO <sub>4</sub> ; [7778-77-0] (4) Water; H <sub>2</sub> O; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Hekster, Ch. A.; Vree, T. B. <i>Antibiotics Chemother.</i> <u>1982</u> , 31, 22-118.											
<b>VARIABLES:</b> pH	<b>PREPARED BY:</b> R. Piekos											
<b>EXPERIMENTAL VALUES:</b>  <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">pH</th> <th colspan="2">Solubility at 25°C</th> </tr> <tr> <th>mg/l</th> <th>10<sup>4</sup> mol dm<sup>-3</sup> a</th> </tr> </thead> <tbody> <tr> <td>5.5</td> <td>66</td> <td>2.2</td> </tr> <tr> <td>7.5<sup>b</sup></td> <td>66</td> <td>2.2</td> </tr> </tbody> </table> <p><sup>a</sup>Calculated by compiler  <sup>b</sup>Erroneous pH value of 7.0 is given in the article</p>		pH	Solubility at 25°C		mg/l	10 <sup>4</sup> mol dm <sup>-3</sup> a	5.5	66	2.2	7.5 <sup>b</sup>	66	2.2
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<b>METHOD/APPARATUS/PROCEDURE:</b> The earlier developed method (1) was used (personal communication). Satd solns of N <sup>1</sup> -acetylsulfamethoxazole were prepd in phosphate buffers of pH 5.5 and 7.5 at 25°C. The concn of the solute was measured by means of a Spectra Physics 3500B high-performance liquid chromatograph equipped with a Model 748 column oven and a Pye-Unicam LC-UV spectrophotometric detector.	<b>SOURCE AND PURITY OF MATERIALS:</b> Neither source nor the purity of the materials was specified.											
	<b>ESTIMATED ERROR:</b> Soly: the detection limit of the solute by HPLC was 0.5 mg/l (authors). The errors in temp and pH were not specified.											
	<b>REFERENCES:</b> Hekster, Y. A.; Vree, T.B.; Damsma, J. E.; Friesen, W. T. <i>J. Antimicrob. Chemother.</i> <u>1981</u> , 8, 133.											