

COMPONENTS:	ORIGINAL MEASUREMENTS:											
(1) Acetamide, N-[4[[5-methyl-3-isoxazolyl)-amino]sulfonyl]phenyl]- (N <sup>4</sup> -acetyl-sulfamethoxazole); C <sub>12</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S; [ 21312-10-7] (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]	Hekster, Y.A.; Vree, T.B.; Damsma, J.E.; Friesen, W. T. <i>J. Antimicrob. Chemother</i> , <u>1981</u> , <i>8</i> , 133-44.  PREPARED BY:  R. Piekos											
VARIABLES:           pH												
EXPERIMENTAL VALUES: <table border="1" data-bbox="403 612 927 874" 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>3</sup> mol dm<sup>-3</sup> a</th> </tr> </thead> <tbody> <tr> <td>5.5</td> <td>115</td> <td>0.389</td> </tr> <tr> <td>7.5</td> <td>1000</td> <td>3.386</td> </tr> </tbody> </table> <p data-bbox="430 929 710 955" style="text-align: center;"><sup>a</sup>Calculated by compiler</p>		pH	Solubility at 25°C		mg/l	10 <sup>3</sup> mol dm <sup>-3</sup> a	5.5	115	0.389	7.5	1000	3.386
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AUXILIARY INFORMATION												
METHOD/APPARATUS/PROCEDURE: Satd solns of N <sup>4</sup> -acetylsulfamethoxazole were prepd in phosphate buffers of pH 5.5 and 7.5 at room temp (25°C). The concn of the solute was measured by means of a Spectra Physics 3500B high-performance liquid chromatograph equipped with a column oven (Model 748) and a Pye-Unicam LC-UV spectrophotometric detector. The detector was connected to a 1-mV recorder. A stainless steel column (10 cm x 4.6 mm i.d.) was packed with Lichrosorb RPS, 5 μm, obtained from Chrompack. An injection loop of 100 μl was used. The oven temp was 40°C. Detection of the solute was performed at 260 nm.	SOURCE AND PURITY OF MATERIALS: The source and purity of the materials was not specified.  ESTIMATED ERROR: The detection limit of solute by HPLC was 0.5 mg/l (authors). The error in temperature and pH was not specified.  REFERENCES:											