

COMPONENTS: (1) Acetamide, N-[[4-(acetylamino)phenyl]-sulfonyl]-N-(3,4-dimethyl-5-isoxazolyl)-(N ¹ , N ⁴ -diacetylsulfafurazole)*; C ₁₅ H ₁₇ N ₃ O ₅ S; [35943-12-5] (2) Phosphoric acid, disodium salt; Na ₂ HPO ₄ ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH ₂ PO ₄ ; [7778-77-0] (4) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Hekster, Ch. A.; Vree, T. B. <i>Antibiotics Chemother.</i> <u>1982</u> , <i>31</i> , 22-118.											
VARIABLES: pH	PREPARED BY: R. Piekos											
EXPERIMENTAL VALUES: <div style="text-align: center;">Solubility at 25°C</div> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">pH</th> <th colspan="2">mg/1</th> </tr> <tr> <th>mg/1</th> <th>10⁵ mol dm⁻³ a</th> </tr> </thead> <tbody> <tr> <td>5.5</td> <td>12.3</td> <td>3.50</td> </tr> <tr> <td>7.5^b</td> <td>5.2</td> <td>1.50</td> </tr> </tbody> </table> <p>^a Calculated by compiler</p> <p>^b Erroneous pH value of 7.0 is given in the article</p> <p>* Another common trivial name is N¹,N⁴-diacetyl-sulfisoxazole</p>		pH	mg/1		mg/1	10 ⁵ mol dm ⁻³ a	5.5	12.3	3.50	7.5 ^b	5.2	1.50
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AUXILIARY INFORMATION												
METHOD/APPARATUS/PROCEDURE: The earlier developed method (1) was used (personal communication). Satd solns of N ¹ ,N ⁴ -diacetylsulfafurazole* 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.	SOURCE AND PURITY OF MATERIALS: Neither source nor the purity of the materials was specified.											
ESTIMATED ERROR: Soly: the detection limit of the solute by HPLC was 0.5 mg/l (authors). The errors in temp and pH were not specified.												
REFERENCES: 1. Hekster, Y.A.; Vree, T. B.; Damsma, J.E.; Friesen, W. T.; <i>J. Antimicrob. Chemother.</i> <u>1981</u> , <i>8</i> , 133.												