

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(4-methoxy-1,2,5-thiadiazol-3-yl)-; (sulfametrole); $C_9H_{10}N_4O_3S_2$; [32909-92-5] (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: Hekster, Y. A.; Vree, T. B.; Damsma, J. E.; Friese, W. T. <i>J. Antimicrob. Chemother.</i> <u>1981</u> , <i>8</i> , 133-44.											
VARIABLES: <p style="text-align: center;">pH</p>	PREPARED BY: <p style="text-align: center;">R. Piekos</p>											
EXPERIMENTAL VALUES: <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center; padding: 5px;">pH</th> <th colspan="2" style="text-align: center; padding: 5px;">Solubility at 25°C</th> </tr> <tr> <th style="text-align: center; padding: 5px;">mg/l</th> <th style="text-align: center; padding: 5px;">$10^3 \text{ mol dm}^{-3} \text{ }^a$</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">5.5</td> <td style="text-align: center; padding: 5px;">460</td> <td style="text-align: center; padding: 5px;">1.61</td> </tr> <tr> <td style="text-align: center; padding: 5px;">7.5</td> <td style="text-align: center; padding: 5px;">1700</td> <td style="text-align: center; padding: 5px;">5.94</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">^aCalculated by compiler</p>		pH	Solubility at 25°C		mg/l	$10^3 \text{ mol dm}^{-3} \text{ }^a$	5.5	460	1.61	7.5	1700	5.94
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AUXILIARY INFORMATION												
METHOD/APPARATUS/PROCEDURE: Satd solns of sulfametrole 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 sulfametrole was performed at 260 nm.	SOURCE AND PURITY OF MATERIALS: Sulfametrole was obtained from Warrick Nederland. The compd was 100% pure according to the HPLC chromatogram. The source and purity of the remaining materials were not specified.											
ESTIMATED ERROR: The detection limit of the solute by HPLC was 0.5 mg/l (authors). The error in temperature and pH were not specified.												
REFERENCES:												