

COMPONENTS: (1) Benzenesulfonamide, 4-amino-N-(2,6-dimethoxy-4-pyrimidinyl)- (sulfadimethoxine); $C_{12}H_{14}N_4O_4S$; [122-11-2] (2) 1-Pentanol; $C_5H_{12}O$; [71-41-0]	ORIGINAL MEASUREMENTS: Mauger, J. W.; Paruta, A. N.; Gerraughty, R. J. <i>J. Pharm. Sci.</i> <u>1972</u> , <i>61</i> (1), 94-7.								
VARIABLES: Temperature	PREPARED BY: R. Piekos								
EXPERIMENTAL VALUES: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">$t/^{\circ}C$</th> <th style="text-align: center;">Mole fraction solubility ($\times 10^4$)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">25</td> <td style="text-align: center;">3.41</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">4.41</td> </tr> <tr> <td style="text-align: center;">37</td> <td style="text-align: center;">5.65</td> </tr> </tbody> </table>		$t/^{\circ}C$	Mole fraction solubility ($\times 10^4$)	25	3.41	30	4.41	37	5.65
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AUXILIARY INFORMATION									
METHOD/APPARATUS/PROCEDURE: A const temp bath contg screw-capped bottles with sulfadimethoxine in excess and 1-pentanol was rotated for 24 h. Samples were withdrawn through a pledget of glass wool into a pipet, which was wiped clean and allowed to drain into a volumetric flask. Solute concns were detd by spectrophotometric assay at predetd wavelengths using a Cary model 16 spectrophotometer.	SOURCE AND PURITY OF MATERIALS: Sulfadimethoxine: lot 203057, Hoffmann-La Roche, Inc. 1-Pentanol was from Fisher Scientific Co. ESTIMATED ERROR: Soly: av values of 3 detns are given (authors). Temp: $\pm 0.1^{\circ}C$ (authors). REFERENCES: 1. Paruta, A. N.; Mauger, J. W. <i>J. Pharm. Sci.</i> <u>1971</u> , <i>60</i> , 432.								