

COMPONENTS: (1) 2-Butenamide, N-[(4-aminophenyl)-sulfonyl]-3-methyl- (sulfadicramide); $C_{11}H_{14}N_2O_3S$; [115-68-4] (2) 2-Propanone (acetone) C_3H_6O ; [67-64-1]				ORIGINAL MEASUREMENTS: Gutierrez, F. H. <i>Anales fis. quim. (Madrid)</i> <u>1945</u> , 41, 537-60.			
VARIABLES: Temperature				PREPARED BY: R. Piekos			
EXPERIMENTAL VALUES:							
$t/^\circ C$	G^a	E^b	X_g/I^c	mol/l ^d acetone	mmol/mol acetone	1:X _g ^e	1 + X _{cc} ^f
0	17.498	14.893	142.539	561	39.9	5.71	7.01
5	18.500	15.611	149.628	588	42.5	5.40	6.69
10	19.591	16.348	157.316	619	44.7	5.10	6.36
15	20.699	17.149	164.992	648	47.3	4.83	6.06
20	22.261	18.208	176.129	692	50.9	4.49	5.67
25	25.099	18.762	181.373	713	52.7	4.33	5.51
30	24.922	19.950	194.217	764	56.8	4.01	5.15
35	26.799	21.135	207.237	815	61.2	3.73	4.82
40	29.400	22.720	225.616	887	67.1	3.40	4.43
45	33.029	24.828	251.483	988	75.4	3.03	3.94
50	39.451	28.290	298.052	1172	90.1	2.53	3.35
<p>^a $G = \frac{p \cdot 100}{P - p}$, where p and P are the weights of solute and solution, resp.</p> <p>^b $E = \frac{G \cdot 100}{G + 100}$; ^c g/l acetone; ^d should be mmol/l acetone (compiler);</p> <p>^e g of acetone required to dissolve 1 g of solute; ^f volume (cm³) of acetone required to dissolve 1 g of solute.</p>							
AUXILIARY INFORMATION							
METHOD/APPARATUS/PROCEDURE: A special all-glass app was constructed enabling the prepn of satd solns, agitation by bubbling a stream of acetone-satd N, filtration, and distn off the solvent without contact with air. Two exchangeable dissoln vessels of 15 and 8 cm ³ working capacity were used depending on the soly of solute. The app was immersed in a thermostat. The vols of acetone used were 15 or 5 cm ³ , and the equilibration time was 2-2.5 h. The satd solns were filtered, weighed, the solvent was distd off, the residues were dried at 105 ^o C, weighed, and examd for the presence of solvated acetone.				SOURCE AND PURITY OF MATERIALS: The source of the materials was not specified. Pure, anhyd acetone was used. The absence of impurities and water was confirmed by procedures of the German Pharmacopeia VI and Spanish Pharmacopeia VIII. The purity of sulfadicramide was not specified.			
				ESTIMATED ERROR: Soly: measurements were repeated until 2 values not differing in the second decimal were obtained (author). Temp: $\pm 0.1^\circ C$ (author).			
				REFERENCES:			