

COMPONENTS:				ORIGINAL MEASUREMENTS:			
(1) 2-Butenamide, N- (4-aminophenyl)-sulfonyl]-3-methyl-, monosodium salt (Na sulfadiazamide); $C_{11}H_{13}N_2NaO_3S$; [78739-59-0] (2) 2-Propanone (acetone); C_3H_6O ; [67-64-1]				Gutierrez, F. H. <i>Anales fis. quim. (Madrid)</i> 1945, 41, 537-60.			
VARIABLES:				PREPARED BY:			
Temperature				R. Piekos			
EXPERIMENTAL VALUES:							
$t/^\circ C$	G^a	E^b	$X_g/1^c$	mol/1 ^d acetone	mmol/mol acetone	1:X _g ^e	1 + X _{cc} ^f
0	0.087	0.087	0.709	2.57	0.18	1149.42	1410.44
5	0.092	0.092	0.744	2.69	0.19	1089.13	1344.09
10	0.098	0.098	0.787	2.87	0.20	1020.41	1270.65
15	0.107	0.107	0.853	3.08	0.22	934.58	1160.61
20	0.111	0.111	0.872	3.15	0.23	900.90	1146.67
25	0.112	0.112	0.879	3.18	0.24	892.86	1137.65
30	0.112	0.112	0.873	3.16	0.24	892.86	1145.30
35	0.112	0.112	0.866	3.13	0.24	892.86	1154.73
40	0.116	0.116	0.890	3.22	0.24	862.07	1123.60
45	0.127	0.127	0.967	3.49	0.26	787.40	1034.18
50	0.129	0.129	0.975	3.53	0.27	775.19	1025.64
<p>^a $G = \frac{p}{P-p} \cdot 100$, where p and P are the weights of solute and solution, resp.</p> <p>^b $E = \frac{G}{G+100}$; ^c g/l acetone; ^d should be mmol/l (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:				SOURCE AND PURITY OF MATERIALS:			
<p>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 dissolv vessels of 15 and 8 cm³ capacity were used depending on the soly of solute. The app was immersed in a thermostat. The volsof acetone used were 15 or 8 cm³, and the equilibration time was 2-2.5 h. The satd solns were filtered, weighed, the solvent was distd off, the residue was dried at 105°C, weighed, and examd for the presence of solvated acetone.</p>				<p>The source of the materials was not specified.</p> <p>Pure, anhyd acetone was used. The absence of impurities and water in it was confirmed by procedures of the German Pharmacopeia VI and Spanish Pharmacopeia VIII.</p> <p>The purity of the solute was not specified.</p>			
				<p>ESTIMATED ERROR:</p> <p>Soly: measurements were repeated until 2 values not differing in the second decimal were obtained (author).</p> <p>Temp: +0.1°C (author).</p>			
				<p>REFERENCES:</p>			