

COMPONENTS: (1) Glycine, N-[4-(aminosulfonyl)-phenyl]-; $C_8H_{10}N_2O_4S$; [6138-11-0] (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	$X_g/1^c$	mol/l ^d acetone	mmol/mol' acetone	$1:X_g^e$	$1 + X_{cc}^f$
0	3.733	3.599	30.409	132	9	26.80	32.84
5	3.952	3.831	31.934	139	10	25.30	31.29
10	4.146	3.981	33.292	144	10.4	24.12	30.04
15	4.301	4.124	34.283	149	10.8	23.48	29.17
20	4.801	4.581	37.986	165	12	20.83	26.32
25	5.210	4.952	40.909	178	13	19.17	24.44
30	5.919	5.589	46.127	200	15	16.90	21.68
35	6.600	6.191	51.038	222	17	15.15	19.57
40	7.599	7.062	58.315	253	19	13.16	17.15
45	8.799	8.087	66.996	290	22	11.37	14.93
50	10.011	9.100	75.633	328	25	9.99	13.22
<p>^a $G = \frac{p}{P - p} \cdot 100$, where p and P are the weights of solute and solution, resp.</p> <p>^b $E = \frac{G}{G + 100} \cdot 100$; ^c g/l acetone; ^d should be mmol/l (compiler);</p> <p>^e g of acetone 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 the 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 the solute 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:			