

COMPONENTS:	ORIGINAL MEASUREMENTS:																																
(1) Benzenesulfonamide, 4-amino-, monohydrochloride (sulfanilamide-HCl); $C_6H_8N_2O_2S \cdot HCl$ ; [6101-31-1] (2) 2-Propanone (acetone); $C_3H_6O$ ; [67-64-1]	Gutierrez, F. H. <i>Anales fis. quim. (Madrid)</i> <u>1945</u> , 41, 537-60.																																
VARIABLES:	PREPARED BY:																																
Temperature	R. Piekos																																
EXPERIMENTAL VALUES:																																	
<table border="1"> <thead> <tr> <th><math>t/^{\circ}C</math></th> <th><math>G^a</math></th> <th><math>E^b</math></th> <th><math>X_g/1^c</math></th> <th>mol/l<sup>d</sup> acetone</th> <th>mmol/mol acetone</th> <th><math>1:X_g^e</math></th> <th><math>1 + X_{cc}^f</math></th> </tr> </thead> <tbody> <tr> <td>15</td> <td>0.163</td> <td>0.163</td> <td>1.299</td> <td>6.11</td> <td>0.46</td> <td>615.5</td> <td>769.8</td> </tr> <tr> <td>20</td> <td>0.164</td> <td>0.164</td> <td>1.298</td> <td>6.10</td> <td>0.46</td> <td>609.7</td> <td>770.4</td> </tr> <tr> <td>25</td> <td>0.164</td> <td>0.164</td> <td>1.298</td> <td>6.10</td> <td>0.46</td> <td>609.7</td> <td>770.4</td> </tr> </tbody> </table>	$t/^{\circ}C$	$G^a$	$E^b$	$X_g/1^c$	mol/l <sup>d</sup> acetone	mmol/mol acetone	$1:X_g^e$	$1 + X_{cc}^f$	15	0.163	0.163	1.299	6.11	0.46	615.5	769.8	20	0.164	0.164	1.298	6.10	0.46	609.7	770.4	25	0.164	0.164	1.298	6.10	0.46	609.7	770.4	<p><sup>a</sup> <math>G = \frac{p \ 100}{P - p}</math>, where p and P are the weights of solute and solution, resp.</p> <p><sup>b</sup> <math>E = \frac{G \ 100}{G + 100}</math>;    <sup>c</sup> g/l acetone;    <sup>d</sup> should be mmol/l acetone (compiler);</p> <p><sup>e</sup> g of acetone required to dissolve 1 g of solute;</p> <p><sup>f</sup> volume (cm<sup>3</sup>) of acetone required to dissolve 1 g of solute.</p>
$t/^{\circ}C$	$G^a$	$E^b$	$X_g/1^c$	mol/l <sup>d</sup> acetone	mmol/mol acetone	$1:X_g^e$	$1 + X_{cc}^f$																										
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<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 dissoln vessels of 15 and 8 cm<sup>3</sup> 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<sup>3</sup> 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°C, weighed, and examd for the presence of solvated acetone.</p>	<p>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.</p> <p>The purity of sulfanilamide-HCl was not specified.</p> <p>ESTIMATED ERROR:        Soly: measurements were repeated until obtaining 2 values not differing in the second decimal (author).        Temp: <math>\pm 0.1^{\circ}C</math> (author).</p> <p>REFERENCES:</p>																																