

<b>COMPONENTS:</b> (1) Benzamide, N-[(4-aminophenyl)sulfonyl]- (sulfabenzamide); $C_{13}H_{12}N_2O_3S$ ; [127-71-9] (2) Water; $H_2O$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Bhattacharyya, R.; Basu, U. P. <i>Indian Pharmacist</i> <u>1950</u> , 6(3), 77-8, 86.
<b>VARIABLES:</b> One temperature;: $30^{\circ}C$	<b>PREPARED BY:</b> R. Piekos
<b>EXPERIMENTAL VALUES:</b> <p>Solubility of sulfabenzamide in water at <math>30^{\circ}C</math> is 207.0 mg per ml of solution<sup>a</sup>          (0.774 mol <math>dm^{-3}</math> solution, compiler).</p> <p><sup>a</sup> The final pH was 3.6.</p>	
<b>AUXILIARY INFORMATION</b>	
<b>METHOD/APPARATUS/PROCEDURE:</b> <p>A weighed sample of sulfabenzamide was placed in a clean reagent bottle and a known vol of water was added. The mixt was shaken in a mech shaker at 80-100 strokes/min. After at least 24 h the mixt was filtered through a clean, dried and weighed sintered-glass crucible. At the end of the filtration the crucible was washed with about 1 ml of water, dried at <math>105^{\circ}C</math> for 2-3 h, cooled, and weighed to const wt. The pH was detd with a Cambridge bench type pH meter using a glass electrode.</p>	<b>SOURCE AND PURITY OF MATERIALS:</b> <p>Neither source nor purity of the sulfabenzamide was specified.</p> <p>Doubly distd water was used.</p> <b>ESTIMATED ERROR:</b> Soly: not specified. Temp: $\pm 0.2^{\circ}C$ (authors). pH: $\pm 0.01$ unit (authors). <b>REFERENCES:</b>

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<p><b>EXPERIMENTAL VALUES:</b></p> <table border="1" data-bbox="367 530 1201 747"> <thead> <tr> <th rowspan="2">Initial pH</th> <th colspan="2">Solubility at 30°C in M/20 <math>KH_2PO_4</math> solution of pH corrected with M/20 NaOH solution</th> <th rowspan="2">Final pH</th> </tr> <tr> <th>mg/ml solution</th> <th>mol dm<sup>-3</sup><sup>a</sup></th> </tr> </thead> <tbody> <tr> <td>6.18</td> <td>451.4</td> <td>1.634</td> <td>5.55</td> </tr> <tr> <td>7.05</td> <td>1153.8</td> <td>4.176</td> <td>5.9</td> </tr> </tbody> </table> <p><sup>a</sup> Calculated by compiler.</p>		Initial pH	Solubility at 30°C in M/20 $KH_2PO_4$ solution of pH corrected with M/20 NaOH solution		Final pH	mg/ml solution	mol dm <sup>-3</sup> <sup>a</sup>	6.18	451.4	1.634	5.55	7.05	1153.8	4.176	5.9
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<p><b>METHOD/APPARATUS/PROCEDURE:</b></p> <p>A weighed sample of sulfabenzamide was placed in a clean reagent bottle and a known vol of the M/20 <math>KH_2PO_4</math> soln was added, and the pH was adjusted to the desired value with M/20 NaOH soln. The mixt was shaken in a mech shaker at 80-100 strokes/min. After at least 24 h the mixt was filtered through a clean, dried and weighed sintered-glass crucible. At the end of the filtration the crucible was washed with about 1 ml of water, dried at 105°C for 2-3 h, cooled, and weighed to const wt. The pH was detd with a Cambridge bench type pH meter using a glass electrode.</p>	<p><b>SOURCE AND PURITY OF MATERIALS:</b></p> <p>Neither source nor purity of the materials, with the exception was water, was specified.</p> <p>The water was doubly distilled.</p> <p><b>ESTIMATED ERROR:</b></p> <p>Soly: not specified.</p> <p>Temp: <math>\pm 0.2^\circ C</math> (authors).</p> <p>pH: <math>\pm 0.01</math> unit (authors).</p> <p><b>REFERENCES:</b></p>														