

COMPONENTS: (1) Benzamide, N-[(4-aminophenyl)sulfonyl]-3,4-dimethyl- (xyloylsulfamine); $C_{15}H_{16}N_2O_3S$; [120-34-3]. (2) Phosphoric acid, disodium salt; Na_2HPO_4 ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4 ; [7778-77-0] (4) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N. <i>Yakuzaiigaku</i> 1967, 27(1), 37-40.
VARIABLES: One temperature: 30°C; one pH: 7.4	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of xyloylsulfamine in a phosphate buffer solution of pH 7.4^a ($\mu = 0.17$) at 30°C is 8.80 mmol/L (2.68 g dm⁻³, compiler).</p> <p>^aAt the end of the experiment the pH was 7.2</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Xyloylsulfamine (0.5 g) was placed in an L-shaped tube together with 20 ml of the phosphate buffer soln. The mixt was shaken in a thermostat until equilibrium was attained. The xyloylsulfamine was assayed in the supernatant spectrophotometrically at 545 nm on a Beckmann DU spectrophotometer. The results were taken from a calibration graph.	SOURCE AND PURITY OF MATERIALS: Nothing specified. ESTIMATED ERROR: Soly and pH: not specified. Temp: $\pm 1^\circ C$ (authors). REFERENCES:

COMPONENTS: (1) Benzamide, N-[(4-aminophenyl)sulfonyl]-3,4-dimethyl- (xyloylsulfamine); $C_{15}H_{16}N_2O_3S$; [120-34-3] (2) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N. <i>Yakuzaiigaku</i> <u>1967</u> , 27(1), 37-40.
VARIABLES: One temperature: 30°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of xyloylsulfamine in water at 30°C is 0.20 mmol/L (6.09×10^{-2} g dm⁻³, compiler).</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: <p>Xyloylsulfamine (0.5 g) was placed in an L-shaped tube together with 20 ml of water. The mixt was shaken in a thermostat until equilibrium was attained. The xyloylsulfamine was assayed in the supernatant spectrophotometrically at 545 nm on a Beckmann DU spectrophotometer. The results were taken from a calibration graph.</p>	SOURCE AND PURITY OF MATERIALS: Nothing specified. <hr/> ESTIMATED ERROR: Soly: not specified. Temp: $\pm 1^\circ C$ (authors). <hr/> REFERENCES:

COMPONENTS: (1) Benzamide, N-[(4-aminophenyl)sulfonyl]-3,4-dimethyl- (xyloylsulfamine); $C_{15}H_{16}N_2O_3S$; [120-34-3] (2) Methane, trichloro- (chloroform); $CHCl_3$; [67-66-3]	ORIGINAL MEASUREMENTS: Yamazaki, M.; Aoki, M.; Kamada, A.; Yata, N. <i>Yakusaigaku</i> <u>1967</u> , 27(1), 37-40.
VARIABLES: One temperature: 30°C	PREPARED BY: R. Piekos
EXPERIMENTAL VALUES: <p>Solubility of xyloylsulfamine in chloroform at 30°C is 5.42 mmol/L (1.65 g dm⁻³, compiler).</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: <p>Xyloylsulfamine (0.5 g) was placed in an L-shaped tube together with 20 ml of chloroform. The mixt was shaken in a thermostat until equilibrium was attained. The xyloylsulfamine was assayed in the supernatant spectrophotometrically at 545 nm on a Beckmann DU spectrophotometer. The results were taken from a calibration graph.</p>	SOURCE AND PURITY OF MATERIALS: <p>Nothing specified.</p> ESTIMATED ERROR: Soly: not specified. Temp: $\pm 1^\circ C$ (authors). REFERENCES:

COMPONENTS: (1) Benzamide, N-[(4-aminophenyl)sulfonyl]-3,4-dimethyl- (irgafene); $C_{15}H_{16}N_2O_3S$; [120-34-3] (2) Phosphoric acid, disodium salt; Na_2HPO_4 ; [7558-94-4] (3) Phosphoric acid, monopotassium salt; KH_2PO_4 ; [7778-77-0] (4) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Pulver, R.; Suter, R. <i>Schweiz. Med. Wochenschr.</i> 1943, 73(13), 403-8.														
VARIABLES: pH	PREPARED BY: R. Piekos														
EXPERIMENTAL VALUES: <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">pH</th> <th colspan="2">Solubility of irgafene in M/15 phosphate buffers (according to Sørensen) at 20°C</th> </tr> <tr> <th>mg%</th> <th>$10^3 \text{ mol dm}^{-3}{}^a$</th> </tr> </thead> <tbody> <tr> <td>6.0</td> <td>33</td> <td>1.1</td> </tr> <tr> <td>7.0</td> <td>184</td> <td>6.1</td> </tr> <tr> <td>8.0</td> <td>370</td> <td>12.2</td> </tr> </tbody> </table> <p>^a Calculated by compiler.</p>		pH	Solubility of irgafene in M/15 phosphate buffers (according to Sørensen) at 20°C		mg%	$10^3 \text{ mol dm}^{-3}{}^a$	6.0	33	1.1	7.0	184	6.1	8.0	370	12.2
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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	7.651	7.107	62.325	205	14.6	13.07	16.06
5	8.097	7.491	65.489	215	15.7	12.35	15.27
10	9.005	8.261	72.310	237	17.2	11.15	13.83
15	9.771	8.901	76.085	249	18.6	10.24	13.14
20	10.496	9.499	83.044	273	20.0	9.53	12.04
25	11.111	10.000	87.244	287	21.2	9.00	11.46
30	12.332	10.978	96.103	316	23.5	8.18	10.41
35	13.207	11.664	102.130	335	25.2	7.57	9.79
40	13.997	12.278	107.413	353	26.7	7.15	9.35
45	15.609	13.501	118.847	390	29.8	6.41	8.41
50	17.211	14.684	130.009	427	32.6	5.81	7.69
a $G = \frac{p}{P - p} \cdot 100$, where p and P are the weights of solute and solution, resp. b $E = \frac{G}{G + 100} \cdot 100$; c g/l acetone; d should be mmol/l acetone (compiler); e g of acetone required to dissolve 1 g of solute; f volume (cm^3) of acetone required to dissolve 1 g of solute.							
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 dissolv 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 $^\circ C$, 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 xyloylsulfamine 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:			