

<p>COMPONENTS:</p> <p>(1) 2,4,6-Tribromophenol; $C_6H_3Br_3O$; [118-79-6]</p> <p>(2) Water; H_2O; [7732-18-5]</p>	<p>EVALUATOR:</p> <p>A. Vesala, Department of Chemistry and Biochemistry, University of Turku.</p> <p>November 1979.</p>								
<p>CRITICAL EVALUATION:</p> <p>The only two available published works concerning the solubility of 2,4,6-tribromophenol in water are old and information provided in these works concerning the methods of analysis is incomplete. Also, the purity of the reagents used in the measurements is open to question. However, the solubility value of 70 mg(1)/kg(2) at 288 K determined by Werner (1) in 1884 agrees quite well with the value of 76 mg(1)/kg(2) at 17-18°C measured by Ogston (2). (These concentrations have been established in the same units by assuming the density of the saturated solution to be 1.0 g/cm³.)</p> <p>It should be noted that the solubility of 2,4,6-tribromophenol in water is considerably dependent upon the acidity of the solution. Here, it is assumed that the solubility established refers to that of a solution having a pH value prevailing for saturated 2,4,6-tribromophenol in water.</p> <p>The solubility of 2,4,6-tribromophenol in water is reported here as a doubtful value:</p> <table data-bbox="215 695 887 792"> <thead> <tr> <th>T/K</th> <th>10^4 mol(1)/dm^3</th> <th>10^2 g(1)/kg</th> <th>$10^6 x(1)$</th> </tr> </thead> <tbody> <tr> <td>283.15</td> <td>2.1</td> <td>7.0</td> <td>3.8</td> </tr> </tbody> </table> <p style="text-align: center;">REFERENCES</p> <ol style="list-style-type: none"> Werner, E. <i>Ann. Chim. Phys. Ser. G</i> <u>1884</u>, 572-3. Ogston, A. G. <i>J. Chem. Soc.</i> <u>1936</u>, Part II, 1713. 		T/K	10^4 mol(1)/dm^3	10^2 g(1)/kg	$10^6 x(1)$	283.15	2.1	7.0	3.8
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VARIABLES: One temperature	PREPARED BY: A. Vesala								
EXPERIMENTAL VALUES: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">$t/^\circ C$</th> <th style="text-align: center; padding: 5px;">$10^2 g(1)/dm^3$ a</th> <th style="text-align: center; padding: 5px;">$10^4 mol(1)/dm^3$ b</th> <th style="text-align: center; padding: 5px;">$10^6 x(1)$ b</th> </tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 5px;">15</td> <td style="text-align: center; padding: 5px;">7</td> <td style="text-align: center; padding: 5px;">2.1</td> <td style="text-align: center; padding: 5px;">3.8</td> </tr> </tbody> </table> <p style="margin-left: 20px;">a. Reported. b. Calculated by F. W. Getzen.</p>		$t/^\circ C$	$10^2 g(1)/dm^3$ a	$10^4 mol(1)/dm^3$ b	$10^6 x(1)$ b	15	7	2.1	3.8
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AUXILIARY INFORMATION									
METHOD/APPARATUS/PROCEDURE: Information concerning the equilibration procedure was incomplete. The analysis was done by titration of the saturated solutions with a standard barium hydroxide solution.	SOURCE AND PURITY OF MATERIALS: $C_6H_3Br_3O$: Synthesized product, reported melting point $92^\circ C$. H_2O : Source and purity not specified.								
	ESTIMATED ERROR:								
	REFERENCES:								

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<p>METHOD/APPARATUS/PROCEDURE:</p> <p>There were no specifications in the original paper about the experimental methods. Also, the temperature at which the measurements were made was not well defined.</p>	<p>SOURCE AND PURITY OF MATERIALS:</p> <p>$C_6H_3Br_3O$: Source and purity not specified. H_2O: Source and purity not specified.</p> <p>ESTIMATED ERROR:</p> <p>REFERENCES:</p>								