

<p>COMPONENTS:</p> <p>(1) 1,3-bis(trifluoromethyl)benzene; $C_6H_4(CF_3)_2$; [402-31-3]</p> <p>(2) Water; H_2O; [7732-18-5]</p>	<p>ORIGINAL MEASUREMENTS:</p> <p>Strachan, A. N.; Field, J. P.; Fleming, K. A. Int. Solvent Extr. Conf., (Proc.), Vol. 2, <u>1980</u>, page paper 80-2, 6 pp.</p>								
<p>VARIABLES:</p> <p>One temperature</p>	<p>PREPARED BY:</p> <p>F. W. Getzen</p>								
<p>EXPERIMENTAL VALUES:</p> <table border="1" data-bbox="188 470 913 568"> <thead> <tr> <th>$t/^\circ C$</th> <th>$10^2 g(1)/dm^3$ ^a</th> <th>$10^4 mol(1)/dm^3$ ^b</th> <th>$10^6 \kappa(1)$ ^a</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>4.090</td> <td>1.91</td> <td>3.451</td> </tr> </tbody> </table> <p>a. Calculated by compiler. b. Reported.</p>		$t/^\circ C$	$10^2 g(1)/dm^3$ ^a	$10^4 mol(1)/dm^3$ ^b	$10^6 \kappa(1)$ ^a	25	4.090	1.91	3.451
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<p>AUXILIARY INFORMATION</p>									
<p>METHOD/APPARATUS/PROCEDURE:</p> <p>An excess of 1,3-bis(trifluoromethyl)benzene was stirred with 100 ml water in a closed flask in a thermally regulated bath ($\pm 0.1^\circ C$) for 30 min. After phase separation and standing for several hours, two samples of known amounts were removed from the aqueous phase and extracted with hexane. The absorbances of the extracted samples were measured (265 nm) with a Pye Unicam SP 30 spectrophotometer. Hexane solutions of the solute in known concentrations were used to establish the extinction coefficient ($246 dm^3 mol^{-1} cm^{-1}$). The procedure was repeated to give a total of four concentration measurements.</p>	<p>SOURCE AND PURITY OF MATERIALS:</p> <p>$C_6H_4(CF_3)_2$: Fluorochem Limited 97-100%; redistilled and middle cut used.</p> <p>H_2O: Distilled.</p> <p>ESTIMATED ERROR:</p> <p>Solubility: $\pm 3\%$ (authors). Temperature: ± 0.1 K (authors).</p> <p>REFERENCES:</p>								