

<b>COMPONENTS:</b> (1) 2-Octene; $C_8H_{16}$ ; [111-67-1] (2) Water; $H_2O$ ; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b> Natarajan, G.S.; Venkatachalam, K.A. <i>J. Chem. Eng. Data</i> <u>1972</u> , <i>17</i> , 328-9.																
<b>VARIABLES:</b> Temperature: 15-25°C	<b>PREPARED BY:</b> M.C. Haulait-Pirson, G.T. Hefter																
<b>EXPERIMENTAL VALUES:</b> Solubility of 2-octene in 0.001 mol/L $HNO_3$ solution. <table border="1" data-bbox="159 620 1096 909"> <thead> <tr> <th><math>t/^\circ C</math></th> <th><math>10^4</math> mol/L sln<sup>a</sup></th> <th><math>10^3</math> g(l)/100 g sln<sup>b</sup> (compiler)</th> <th><math>10^6 x_1</math> (compiler)</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>2.92 ± 0.14</td> <td>3.3</td> <td>5.3</td> </tr> <tr> <td>20</td> <td>2.51 ± 0.16</td> <td>2.8</td> <td>4.5</td> </tr> <tr> <td>25</td> <td>2.16 ± 0.15</td> <td>2.4</td> <td>3.9</td> </tr> </tbody> </table> <p> <sup>a</sup> Uncertainties stated to be "standard deviations from means".  <sup>b</sup> Assuming a solution density of 1.00 g mL<sup>-1</sup> at all temperatures.         </p> <p> <b>Compiler's note:</b> Although the data have not been measured in pure water the low concentration of the added acid is unlikely to cause olefin solubility to differ markedly from that in pure water. Further solubility data are given in the paper for 0.05 and 0.1 mol L<sup>-1</sup> HCl.         </p>		$t/^\circ C$	$10^4$ mol/L sln <sup>a</sup>	$10^3$ g(l)/100 g sln <sup>b</sup> (compiler)	$10^6 x_1$ (compiler)	15	2.92 ± 0.14	3.3	5.3	20	2.51 ± 0.16	2.8	4.5	25	2.16 ± 0.15	2.4	3.9
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<b>AUXILIARY INFORMATION</b>																	
<b>METHOD/APPARATUS/PROCEDURE:</b> 15 mL of the aqueous medium was equilibrated with 1 mL of (1) by mechanical shaking in a thermostatted glass burette. After settling (judged visually), 5 mL of the aqueous layer was withdrawn and the olefin content determined by titration with bromine using standard procedures.	<b>SOURCE AND PURITY OF MATERIALS:</b> (1) Prepared by dehydration of 2-octanol and then washed, dried and fractionated. Purity (no specification) was determined by chromatography. (2) Not specified. <table border="1" data-bbox="638 1628 1205 1755"> <tbody> <tr> <td> <b>ESTIMATED ERROR:</b>                Temp. ± 0.05 K                Soly. see table above.             </td> </tr> <tr> <td> <b>REFERENCES:</b> </td> </tr> </tbody> </table>	<b>ESTIMATED ERROR:</b> Temp. ± 0.05 K Soly. see table above.	<b>REFERENCES:</b>														
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