

COMPONENTS: (1) 2,4-Dimethylhexane; C_8H_{18} ; [589-43-5] (2) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Englin, B.A.; Plate, A.F.; Tugolukov, V.M.; Pryanishnikova, M.A. <i>Khim. Tekhnol. Topl. Masel</i> <u>1965</u> , 10, 42-6.												
VARIABLES: Temperature: 10-30°C	PREPARED BY: A. Maczynski and M.C. Haulait-Pirson												
EXPERIMENTAL VALUES: <p style="text-align: center;">Solubility of water in 2,4-dimethylhexane</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">$t/^\circ C$</th> <th style="text-align: center;">$g(2)/100\text{ g sln}$</th> <th style="text-align: center;">$10^4 x_2$ (compiler)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">10</td> <td style="text-align: center;">0.0053</td> <td style="text-align: center;">3.36</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">0.0098</td> <td style="text-align: center;">6.21</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">0.0180</td> <td style="text-align: center;">11.41</td> </tr> </tbody> </table>		$t/^\circ C$	$g(2)/100\text{ g sln}$	$10^4 x_2$ (compiler)	10	0.0053	3.36	20	0.0098	6.21	30	0.0180	11.41
$t/^\circ C$	$g(2)/100\text{ g sln}$	$10^4 x_2$ (compiler)											
10	0.0053	3.36											
20	0.0098	6.21											
30	0.0180	11.41											
AUXILIARY INFORMATION													
METHOD/APPARATUS/PROCEDURE: Component (1) was introduced into a thermostatted flask and saturated for 5 hours with (2). Next, calcium hydride was added and the evolving hydrogen volume measured and hence the concentration of (2) in (1) was evaluated.	SOURCE AND PURITY OF MATERIALS: (1) not specified. (2) not specified. ESTIMATED ERROR: not specified. REFERENCES:												