

COMPONENTS: (1) 2,2,3-Trimethylbutane; C ₇ H ₁₆ ; [464-06-2] (2) Water; H ₂ O; [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: 0-50°C	PREPARED BY: A. Maczynski and M.C. Haulait-Pirson																					
EXPERIMENTAL VALUES: <p style="text-align: center;">Solubility of water in 2,2,3-trimethylbutane</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;"><u>t/°C</u></th> <th style="text-align: center;"><u>g(2)/100 g sln</u></th> <th style="text-align: center;"><u>10⁴x₂</u> (compiler)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0.0027</td> <td style="text-align: center;">1.50</td> </tr> <tr> <td style="text-align: center;">10</td> <td style="text-align: center;">0.0057</td> <td style="text-align: center;">3.17</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">0.0106</td> <td style="text-align: center;">8.90</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">0.0184</td> <td style="text-align: center;">10.23</td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">0.0315</td> <td style="text-align: center;">17.51</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">0.0507</td> <td style="text-align: center;">28.15</td> </tr> </tbody> </table>		<u>t/°C</u>	<u>g(2)/100 g sln</u>	<u>10⁴x₂</u> (compiler)	0	0.0027	1.50	10	0.0057	3.17	20	0.0106	8.90	30	0.0184	10.23	40	0.0315	17.51	50	0.0507	28.15
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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:																					