

COMPONENTS: (1) 7,8-Dimethyltetradecane; $C_{16}H_{34}$; [2801-86-7] (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. Masei</i> <u>1965</u> , 10, 42-6.															
VARIABLES: Temperature: 20-50°C	PREPARED BY: A. Maczynski and M.C. Haulait-Pirson															
EXPERIMENTAL VALUES: <p style="text-align: center;">Solubility of water in 7,8-dimethyltetradecane</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;">$g(2)/100\ g\ sln$</th> <th style="text-align: center;">$10^4 x_2$ (compiler)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">0.0077</td> <td style="text-align: center;">9.67</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">0.0134</td> <td style="text-align: center;">16.83</td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">0.0219</td> <td style="text-align: center;">27.48</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">0.0344</td> <td style="text-align: center;">43.09</td> </tr> </tbody> </table>		$t/^\circ C$	$g(2)/100\ g\ sln$	$10^4 x_2$ (compiler)	20	0.0077	9.67	30	0.0134	16.83	40	0.0219	27.48	50	0.0344	43.09
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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:															