

COMPONENTS: (1) Ethylcyclopentane; C ₇ H ₁₄ ; [1640-89-7] (2) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Guseva, A.N.; Parnov, E.I. <i>Vestn. Mosk. Univ. Khim.</i> <u>1964</u> , 19, 77-8.																				
VARIABLES: Temperature: 70.5-203°C	PREPARED BY: M.C. Haulait-Pirson																				
EXPERIMENTAL VALUES: <p style="text-align: center;">Solubility of ethylcyclopentane in water</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>t</i>/°C</th> <th style="text-align: center;">g(1)/100 g(2)</th> <th style="text-align: center;">g(1)/100 g sln (compiler)</th> <th style="text-align: center;">10⁴<i>x</i>₁ (compiler)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">70.5</td> <td style="text-align: center;">0.0219</td> <td style="text-align: center;">0.0219</td> <td style="text-align: center;">0.40</td> </tr> <tr> <td style="text-align: center;">113</td> <td style="text-align: center;">0.0525</td> <td style="text-align: center;">0.0525</td> <td style="text-align: center;">0.96</td> </tr> <tr> <td style="text-align: center;">168.5</td> <td style="text-align: center;">0.224</td> <td style="text-align: center;">0.224</td> <td style="text-align: center;">4.10</td> </tr> <tr> <td style="text-align: center;">203</td> <td style="text-align: center;">0.759</td> <td style="text-align: center;">0.759</td> <td style="text-align: center;">13.89</td> </tr> </tbody> </table>		<i>t</i> /°C	g(1)/100 g(2)	g(1)/100 g sln (compiler)	10 ⁴ <i>x</i> ₁ (compiler)	70.5	0.0219	0.0219	0.40	113	0.0525	0.0525	0.96	168.5	0.224	0.224	4.10	203	0.759	0.759	13.89
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METHOD/APPARATUS/PROCEDURE: Presumably the measurements were made in sealed glass tubes, as reported in ref 1. No more details were reported in the paper.	SOURCE AND PURITY OF MATERIALS: (1) not specified. (2) not specified. ESTIMATED ERROR: not specified. REFERENCES: 1. Guseva, A.N.; Parnov, E.I. <i>Vestn. Mosk. Univ. Khim.</i> <u>1963</u> , 18, 76.																				

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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 ethylcyclopentane</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;">10</td> <td style="text-align: center;">0.0071</td> <td style="text-align: center;">3.87</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">0.0119</td> <td style="text-align: center;">6.49</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">0.0186</td> <td style="text-align: center;">10.14</td> </tr> </tbody> </table>		<u>t/°C</u>	<u>g(2)/100 g sln</u>	<u>10⁴x₂</u> (compiler)	10	0.0071	3.87	20	0.0119	6.49	30	0.0186	10.14
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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:												