

<b>COMPONENTS:</b>  (1) 2-Ethyl-naphthalene; C <sub>12</sub> H <sub>12</sub> ; [939-27-5]  (2) Water; H <sub>2</sub> O; [7732-18-5]	<b>ORIGINAL MEASUREMENTS:</b>  Eganhouse, R.P.; Calder, J.A.  <i>Geochim. Cosmochim. Acta</i> <u>1976</u> , 40, 555-61.
<b>VARIABLES:</b>  One temperature: 25°C	<b>PREPARED BY:</b>  A. Maczynski
<b>EXPERIMENTAL VALUES:</b>  The solubility of 2-ethyl-naphthalene in water at 25°C was reported to be 8.00 mg(1)/kg(2) and $5.1 \times 10^{-5}$ mol(1) dm <sup>-3</sup> (2).  The corresponding mass percent and mole fraction, $x_1$ , calculated by the compiler are $8.00 \times 10^{-4}$ g(1)/100 g soln and $9.22 \times 10^{-7}$ .	
<b>AUXILIARY INFORMATION</b>	
<b>METHOD/APPARATUS/PROCEDURE:</b>  A mixture of 500 mL (2) and 0.001 mol (1) was equilibrated in an Erlenmeyer flask for 12 h (agitation) + 24 h (stationary). The saturated solution, 100 mL, was extracted with hexane, concentrated by evaporation under nitrogen and analyzed by glc. A 5700 A Hewlett-Packard instrument equipped with dual compensating columns and flame ionization detectors was employed.	<b>SOURCE AND PURITY OF MATERIALS:</b>  (1) source not specified; analytical grade; used as received; no impurities by glc.  (2) doubly distilled; free of trace organics.  <b>ESTIMATED ERROR:</b>  temp. ± 0.5°C soly. ± 0.1 mg(1)/kg(2) (from eight determinations)  <b>REFERENCES:</b>