

COMPONENTS: (1) tert-Pentylbenzene; C ₁₁ H ₁₆ ; [2049-95-8] (2) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Andrews, L.J.; Keefer, R.M. <i>J. Am. Chem. Soc.</i> , <u>1950</u> , 72, 5034-7.
VARIABLES: One temperature: 25°C	PREPARED BY: A. Maczynski and Z. Maczynska
EXPERIMENTAL VALUES: <p>The solubility of tert-pentylbenzene in water at 25°C was reported to be 0.00105 g(1)/100 g sln.</p> <p>The corresponding mole fraction, x_1, calculated by the compilers is 1.27×10^{-6}.</p>	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: <p>A mixture of (1) and (2) was rotated twenty hours in a constant temperature bath at 25°C. A sample (5-20 mL) of the aqueous phase was withdrawn and extracted with a measured volume of hexane (10-50 mL) by shaking in a glass-stoppered Erlenmeyer flask. Next, the absorbance of the hexane phase was measured against a hexane blank on the Beckman spectrophotometer.</p>	SOURCE AND PURITY OF MATERIALS: (1) Eastman Kodak Co. white label; fractionally distilled; b.p. range 188.0-189.0°C. (2) not specified.
	ESTIMATED ERROR: not specified.
	REFERENCES: