

COMPONENTS: (1) Pentylcyclopentane; $C_{10}H_{20}$; [3741-00-2] (2) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Price, L.C. <i>Am. Assoc. Petrol. Geol. Bull.</i> <u>1976, 60, 213-44.</u>
VARIABLES: One temperature: 25°C	PREPARED BY: M.C. Haulait-Pirson
EXPERIMENTAL VALUES: The solubility of pentylcyclopentane in water at 25°C and at system pressure was reported to be 0.115 mg(1)/kg(2). The corresponding mass percent and mole fraction, x_1 , calculated by the compiler was 1.15×10^{-5} g(1)/100 g sln and 1.5×10^{-8} .	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: The solubility was determined at laboratory temperatures by use of screw-cap test tubes. The (1) phase floated on top of the water and insured saturation of the (2) phase in 2 to 4 days. Analyses were carried out by GLC using a Hewlett-Packard model 5751 gas chromatograph with dual-flame ionization detectors. Many details are given in the paper.	SOURCE AND PURITY OF MATERIALS: (1) Phillips Petroleum Company; Chemical Samples Company or Aldrich Chemical Company; 99+%. (2) Distilled. ESTIMATED ERROR: Temp. $\pm 1^\circ C$ Soly. ± 0.011 mg(1)/kg(2) REFERENCES: