

COMPONENTS: (1) 1,3 Cyclopentadiene; C ₅ H ₆ ; [542-92-7] (2) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Streitweiser, A.; Nebenzahl, L.L. <i>J. Am. Chem. Soc.</i> <u>1976</u> , <i>98</i> , 2188-90.
VARIABLES: Room Temperature	PREPARED BY: M.C. Haulait-Pirson and G.T. Hefter
EXPERIMENTAL VALUES: The solubility of cyclopentadiene in water at room temperature was reported to be 0.0103 mol L ⁻¹ . ^a Assuming a solution density of 1.00 g mL ⁻¹ the corresponding mass percent and mole fraction (x_1) solubilities, calculated by the compilers, are 0.068 g(1)/100 g sln and 1.8×10^{-4} respectively. <p style="text-align: center;">•</p> ^a According to a footnote in the paper the experimental data were apparently obtained by J. Cambray (presumably <i>unpublished observations</i>) but experimental details are given in the paper.	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: Water was saturated by shaking with excess (1) and then centrifuged. The saturated solution so obtained was then diluted and analysed by UV spectrophotometry assuming the absorptivity to be the same as in ethanol.	SOURCE AND PURITY OF MATERIALS: (1) Aldrich; distilled onto molecular sieves and used within 1h; analysed by GC. (2) Distilled; purity not specified. ESTIMATED ERROR: Not given. REFERENCES: