

COMPONENTS: (1) Benzo[b]triphenylene; C ₂₂ H ₁₄ ; [215-58-7] (2) Salt Water	ORIGINAL MEASUREMENTS: Krasnoshchekova, R.Ya.; Pakhapill, Yu.A.; Gubergrits, M.Ya. <i>Khim. Tverd. Topl.</i> <u>1977</u> , <i>11</i> , 133-6.
VARIABLES: One temperature: 25°C Salinity: 6 g/kg sln (ref. 1)	PREPARED BY: M. Kleinschmidt and D. Shaw
EXPERIMENTAL VALUES: The solubility of benzo[b]triphenylene in salt water was reported to be 27.84 µg/L. The corresponding mass percent and mole fraction, x_1 , calculated by the compilers are 2.719×10^{-6} g(1)/100 g sln and 1.841×10^{-9} assuming a solution density of 1.004 kg/L.	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: 1 L of a 0.5 g/L solution of the hydrocarbon in acetone was distributed over the inside surface of a 1-L round-bottomed flask; the acetone was evaporated with gentle heating. 0.5 L water [or salt water] was added to the dried residue, and the solution was stirred for 6 hr and allowed to settle for 16-18 hr. The upper layer (about 0.3 L) was taken for analysis. The solution was centrifuged twice at 7000 g to remove suspended particles. The hydrocarbon was extracted with benzene and concentrated by evaporation, then purified using thin-layer chromatography. Spectrometric analysis of an octane solution of the hydrocarbon was done using the quasilinear luminescence spectra.	SOURCE AND PURITY OF MATERIALS: not given. ESTIMATED ERROR: temp. ± 1°C soly. ± 1.48 type of error not specified REFERENCES: 1. Krasnoshchekova, R.Ya; Gubergrits, M.Ya. <i>Neftekhimiya</i> <u>1973</u> , <i>13</i> , 885.