COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Diphenylmethane; $C_{13}H_{12}$; [101-81-5] (2) Water; H_2O; [7732-18-5]	Andrews, L.J.; Keefer, R.M. *J. Am. Chem. Soc.* 1949, *71*, 3644-77.
VARIABLES:	**PREPARED BY:**
One temperature: 25°C	A. Maczynski and Z. Maczynska

EXPERIMENTAL VALUES:

The solubility of diphenylmethane in water at 25°C was reported to be 1.41×10^{-4} g(1)/100 g sln.

The corresponding mole fraction, x_1, value calculated by compiler is 1.51×10^{-7}.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
A mixture of (1) and (2) was rotated for twenty hours in a constant temperature bath at 25°C. A sample (5-20 mL) of the aqueous phase was withdrawn and extracted with a measured volume of hexane (10-50 mL) by shaking in a glass-stoppered Erlenmeyer flask.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.	(1) Eastman Kodak Co., best grade; purified by fractional freezing; m.p. 25°C. (2) not specified.
	ESTIMATED ERROR: not specified.
	REFERENCES: