COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) 3-Methylbicyclo[4.4.0]decane (2-methyldecalin); $C_{11}H_{20}$; [2958-76-1] (2) Water; H_2O; [7732-18-5]	Baker, E.G. *Am. Chem. Soc., Div. Petrol. Chem., Preprints* 1958, *3*, N°4, C61-8.
VARIABLES:	**PREPARED BY:**
One temperature: 25°C	M.C. Haulait-Pirson

EXPERIMENTAL VALUES:

The solubility of 2-methyl-C^{14}decalin in water at 25°C was reported to be 40.6×10^{-9} g(1)/g(2).

The corresponding mass percentage and mole fraction, x_1, calculated by the compiler are 4.06×10^{-6} g(1)/100 g sln and 4.82×10^{-9}.

AUXILIARY INFORMATION

METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:
Carbon-14 labeled (1) was used as tracer. The technique of preparing a saturated aqueous solution of (1) by ultrafiltration of a (1)-(2) dispersion has been described in ref 1. A Packard Tri-Carb Liquid Scintillation Spectrometer was used to detect the radioactive (1) dissolved in (2).	(1) Nuclear Instrument and Chemical Corporation; used as received. (2) distilled.
	ESTIMATED ERROR: soly. 20% (standard deviation from 17 replicate runs).
	REFERENCES: 1. Baker, E.G. *Am. Chem. Soc., Div. Petrol. Chem., Preprints-Symposia* 1956, *1*, N°2, 5.