

COMPONENTS: (1) Yttrium iodide; YI_3 ; [13470-38-7] (2) Tetrahydrofuran; C_4H_8O ; [109-99-9]	ORIGINAL MEASUREMENTS: Kachkimbaeva, S. A.; Chalova, E. P.; Bleshinskii, S. V. <i>Khim. Kompleks. Soedin. Redk.</i> <i>Soputstvuyushchikh Elem.</i> <u>1970</u> , 122-6.
VARIABLES: One temperature: T/K = 293	PREPARED BY: T. Mioduski
EXPERIMENTAL VALUES: The solubility of YI_3 in tetrahydrofuran at 20°C was reported to be 1.53 g dm^{-3} ($3.26 \times 10^{-3} \text{ mol dm}^{-3}$, compiler).	
AUXILIARY INFORMATION	
METHOD/APPARATUS/PROCEDURE: The solute-solvent mixtures were equilibrated isothermally by agitation. The phases separated by decantation and in some cases by centrifuging. Y determined by the oxalate method. I determined by titration with an $AgNO_3$ solution (the Volhard method).	SOURCE AND PURITY OF MATERIALS: YI_3 prepared from "c.p." grade I_2 and excess powdered metal (Y-O-Sort) by heating in an ampule to 1200°C. YI_3 sublimated from the hot to the cold part of the ampoule. The product was analysed for Y and I (results not given). "C.p." grade tetrahydrofuran, b.p.=65.6°C, dried with NaOH and distilled from metallic sodium.
ESTIMATED ERROR: Nothing specified.	
REFERENCES:	