COMPONENTS :	ORIGINAL MEASUREMENTS:
(1) Cesium iodate; CsIO ₃ ; [13454-81-4]	Wheeler, H.L.
(2) Water; H ₂ 0; [7732-18-5]	Am. J. Sci. <u>1892</u> , [3] 44, 123–33.
VARIABLES:	PREPARED BY:
т/к = 297	Hiroshi Miyamoto
EXPERIMENTAL VALUES:	.
The solubility of CsIO3 in water is given as	
100 parts water dissolve 2.6 parts of CsI03.	
farre farre 2.	
The compiler's conversions to mass % and mol kg $^{-1}$ are	
2.	53 mass %
0.0844 mol kg=1	
0.0844 mol kg-1	
ΑΠΥΤΙΤΑΟΥ ΙΝΕΩΟΜΑΤΙΩΝ	
METHOD /APPARATUS / PROCEDURE :	SOURCE AND PURITY OF MATERIALS
	Cesium iodate was prepared by stoichio-
No information was given.	metric mixing of iodic acid and cesium carbonate. The solution was boiled, and
	upon cooling small cubic crystals were
	washed with cold water, pressed on papers,
	and then dried at 100°C. Found: Cs 43.08: I 40.84: 0 15.74.
	Calcd for CsIO ₃ : Cs 43.18; I 41.23;
	U 15.59.
	ESTIMATED ERROR:
	Norning specified.
	REFERENCES :

COMPONENTS:	ORIGINAL MEASUREMENTS:	
(1) Cesium iodate; CsI03; [13454-81-4]	Barker, T.V.	
(2) Water: $H_0(1, [7732-18-5])$	1 Cham San 1908 93 15-6	
(2) water, n20; [//32-10-5]	J. Chem. 30C. 1908, 75, 13-6.	
VARIABLES:	PREPARED BY:	
T/K = 297	Hiroshi Miyamoto	
EXPERIMENTAL VALUES:		
The solubility of CsIO ₃ in water at 24°C was given as		
100 parts of water dissolves 2.6 parts of salt.		
This is equivalent to 0.084 mol kg^{-1} (compiler).		
The encodifier encoder of the ection to declarate at 16°C		
The specific gravity of the saturated solution at 16°C was reported as 4.559. The compiler assumes that pptn occurred upon		
cooling a satd sln at 24 ⁰ C to l	6°C.	
AUXILIARY		
METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:	
Carius method (the reference was not given	aqueous HIO3 solution to aqueous cesium car-	
in the original paper), but the compiler	bonate solution. Another method was also	
termined by evaporation and heating to	was obtained by passing chlorine into a	
constant mass.	hot concentrated solution of a mixture of	
lasting four hours: the first to 150°C, and	formation given.	
the second to 250°C.		
usual sulfate method.		
No other information was given in the original paper		
original paper.	ESTIMATED ERROR:	
	Nothing specified.	
	REFERENCES :	

COMPONENTS: (1) Cesium iodate; CsI0 ₃ ; [13454-81-4]	ORIGINAL MEASUREMENTS: Breusov, O.N.; Kashina, N.I.;	
(2) Water: $H_{2}0$: $[7732-18-5]$	Revzina, T.V.; Sobolevskaya, N.G.	
	Zh. Neorg. Khim. <u>1967</u> , 12, 2240-3; Russ. J. Inorg. Chem. (Engl. Transl.) <u>1967</u> , 12, 1179-81.	
VARTABLES ·		
	FREFARED DI:	
Temperature: 273.2 to 373.2 K	Hiroshi Miyamoto	
EXPERIMENTAL VALUES:		
Solubility of CsI0 ₃ t/°C mass % mol % mol	kg ⁻¹	
(comp	iler)	
0 1.07 0.0633 0.03	51	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
25 2.62 0.157 0.08		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	
50 4.05 0.310 0.17	3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
80 9.08 0.581 0.32	4 単川周 (4川川)	
90 10.85 0.707 0.39 100 12.58 0.835 0.46		
	\bigcirc	
	High temperature aparatus	
AUXILIARY INFORMATION		
METHOD/APPARATUS/PROCEDURE:	SOURCE AND PURITY OF MATERIALS:	
Isothermal method. Equilibrium reached in	Results of analysis of CsIO ₃ :	
shown in figure. At equilibrium, the ap-	CsIO ₃ content; 99.5 %	
paratus was tilted to allow satd sln to	Impurities, λ ; K 0.005; Kb 0.20; Na 0.02: S0/ <0.05; Fe 0.005.	
filter through connecting tube into weighed		
stopper, withdrawn, and weighed. Condensa-		
tion on the walls of the apparatus and loss		
At the lower temperatures, ordinary soly		
vessels were used, and pipets with glass filters were used for sampling (no other		
details given). Above 50°C, the pipets were	ESTIMATED ERROR:	
preheated in the thermostat.	Soly: nothing specified.	
founder was determined founderfearly.	Temp: precision \pm 0.1 K.	
	REFERENCES:	
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