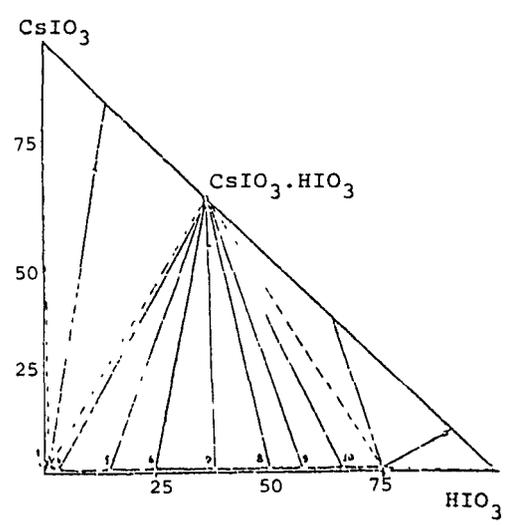


COMPONENTS: (1) Cesium nitrate; CsNO_3 ; [7789-18-6] (2) Cesium iodate; CsIO_3 ; [13454-81-4] (3) Water; H_2O ; [7732-18-5]		ORIGINAL MEASUREMENTS: Vinogradov, E.E.; Karataeva, I.M. <i>Zh. Neorg. Khim.</i> <u>1976</u> , <i>21</i> , 1664-6; <i>Russ. J. Inorg. Chem. (Engl. Transl.)</i> <u>1976</u> , <i>21</i> , 910-1.		
VARIABLES: Composition at 323 K		PREPARED BY: Hiroshi Miyamoto		
EXPERIMENTAL VALUES: Composition of saturated solutions				
	CsIO_3		CsNO_3	
mass %	mol % (compiler)	mass %	mol % (compiler)	Nature of the solid phase ^a
5.07 ^b	0.312	-	-	A
1.95	0.136	15.56	1.711	"
1.74	0.124	17.97	2.024	"
1.38	0.110	28.09	3.547	"
31.42	14.18	63.30	45.11	"
1.02	0.0927	38.19	5.483	A+B
1.02	0.0929	38.34	5.516	"
1.02	0.0937	38.89	5.639	"
1.04	0.0948	38.33	5.515	"
1.02	0.0934	38.70	5.596	"
0.98	0.0906	39.39	5.749	"
0.99	0.0900	38.22	5.487	"
0.23	0.0209	39.01	5.601	B
-	-	39.49	5.689	"
^a A = CsIO_3 ; B = CsNO_3 .				
^b For the binary system the compiler computes the following: $\text{solv of } \text{CsIO}_3 = 0.174 \text{ mol kg}^{-1}$				
AUXILIARY INFORMATION				
METHOD/APPARATUS/PROCEDURE: The compiler assumes that the isothermal method was used. The ternary CsIO_3 - CsNO_3 - H_2O system was studied by the method described in ref 1.		SOURCE AND PURITY OF MATERIALS: The compiler assumes that chemically pure grade cesium iodate was used as in ref (1).		
COMMENTS AND/OR ADDITIONAL DATA: The phase diagram is given below (based on mass % units).		ESTIMATED ERROR: Nothing specified.		
		REFERENCES: 1. Karataeva, I.M.; Vinogradov, E.E. <i>Zh. Neorg. Khim.</i> <u>1974</u> , <i>19</i> , 3156.		

COMPONENTS:		ORIGINAL MEASUREMENTS:			
(1) Cesium iodate; CsI ₃ ; [13454-81-4]		Shklovskaya, R.M.; Arkhipov, S.M.;			
(2) Aluminum iodate; Al(I ₃) ₃ ; [15123-75-8]		Kidyarov, B.I.; Poleva, G.B.			
(3) Water; H ₂ O; [7732-18-5]		Zh. Neorg. Khim. 1982, 27, 1610-1; Russ. J. Inorg. Chem. (Engl. Transl.) 1982, 27, 910-1.			
VARIABLES:		PREPARED BY:			
Composition at 298 K		Hiroshi Miyamoto			
EXPERIMENTAL VALUES: Composition of saturated solutions at 25°C					
	CsI ₃		Al(I ₃) ₃		Nature of the solid phase ^a
mass %	mol %	mass %	mol %		
	(compiler)		(compiler)		
2.61 ^b	0.157	-	-		A
2.24	0.135	0.82	0.028		"
2.19	0.133	1.68	0.0570		"
2.06	0.126	2.33	0.0794		"
1.99	0.123	3.31	0.114		"
1.85	0.115	4.44	0.154		"
1.57	0.0977	4.58	0.159		A+B
1.29	0.0803	4.90	0.170		B
0.85	0.053	5.07	0.176		"
0.40	0.025	5.61	0.194		"
-	-	5.7 ^b	0.197		"
^a A = CsI ₃ ; B = Al(I ₃) ₃ ·6H ₂ O					
^b For binary systems the compiler computes the following:					
soly of CsI ₃ = 0.0871 mol kg ⁻¹					
soly of Al(I ₃) ₃ = 0.11 mol kg ⁻¹					
AUXILIARY INFORMATION					
METHOD/APPARATUS/PROCEDURE:			SOURCE AND PURITY OF MATERIALS:		
The isothermal method was used. Equilibrium was reached in 15-20 days. The iodate ion concentration in the liquid phase was determined by iodometric titration. The aluminum was determined complexometrically with Trilon(disodium salt of EDTA) and spectrographically. The cesium content was found by difference. The solid phases were identified by the method of residues and checked by X-ray diffraction.			Aluminum iodate hexahydrate was synthesized from iodic acid and aluminum hydroxide. "Special purity" grade cesium iodate was used.		
			ESTIMATED ERROR:		
			Nothing specified.		
			REFERENCES:		

COMPONENTS: (1) Cesium iodate; CsIO ₃ ; [13434-81-4] (2) Hafnium iodate; Hf(IO ₃) ₄ ; [19630-06-9] (3) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Shklovskaya, R.M.; Arkhipov, S.M.; Kidyarov, B.I.; Poleva, G.V.; Vdovkina, T.E. <i>Zh. Neorg. Khim.</i> 1984, 29, 1346-8; <i>Russ. J. Inorg. Chem. (Engl. Transl.)</i> 1984, 29, 773-4.																																																																															
VARIABLES: T/K = 298.2 Composition	PREPARED BY: Mark Salomon																																																																															
EXPERIMENTAL VALUES: The CsIO ₃ - Hf(IO ₃) ₄ - H ₂ O system at 25.0°C Composition of saturated solutions ^a <table border="1" data-bbox="193 566 1179 997"> <thead> <tr> <th colspan="2">CsIO₃</th> <th colspan="2">Hf(IO₃)₄</th> <th rowspan="2">Nature of the solid phase</th> </tr> <tr> <th>mass %</th> <th>mol %</th> <th>mass %</th> <th>mol %</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>0.00037</td> <td>7.59 x 10⁻⁶</td> <td>Hf(IO₃)₄</td> </tr> <tr> <td>0.32</td> <td>0.0188</td> <td>0.000059</td> <td>1.21 x 10⁻⁶</td> <td>solid solution based on Hf(IO₃)₄</td> </tr> <tr> <td>0.60</td> <td>0.0353</td> <td>0.000057</td> <td>1.18 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>0.72</td> <td>0.0424</td> <td>0.000064</td> <td>1.34 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>1.04</td> <td>0.0615</td> <td>0.000076</td> <td>1.57 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>1.23</td> <td>0.0728</td> <td>0.000081</td> <td>1.68 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>1.58</td> <td>0.0939</td> <td>0.000087</td> <td>1.81 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>1.65</td> <td>0.0981</td> <td>0.000094</td> <td>1.96 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>1.95</td> <td>0.1163</td> <td>0.000099</td> <td>2.07 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>2.27</td> <td>0.1358</td> <td>0.00011</td> <td>2.31 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>2.43</td> <td>0.1456</td> <td>0.00013</td> <td>2.73 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>2.53^b</td> <td>0.1517</td> <td>0.00015</td> <td>3.15 x 10⁻⁵</td> <td>solid solution + CsIO₃</td> </tr> <tr> <td>2.53^b</td> <td>0.1517</td> <td>0.00015</td> <td>3.15 x 10⁻⁶</td> <td>"</td> </tr> <tr> <td>2.61</td> <td>0.1566</td> <td>-</td> <td>-</td> <td>CsIO₃</td> </tr> </tbody> </table> <p>^a Mol % values calculated by the compiler.</p> <p>^b Eutonic solution.</p> <p>For binary systems, the compiler computes the following: solubility of CsIO₃ = 0.0871 mol kg⁻¹ solubility of Hf(IO₃)₄ = 4.21 x 10⁻⁶ mol kg⁻¹</p>		CsIO ₃		Hf(IO ₃) ₄		Nature of the solid phase	mass %	mol %	mass %	mol %	-	-	0.00037	7.59 x 10 ⁻⁶	Hf(IO ₃) ₄	0.32	0.0188	0.000059	1.21 x 10 ⁻⁶	solid solution based on Hf(IO ₃) ₄	0.60	0.0353	0.000057	1.18 x 10 ⁻⁶	"	0.72	0.0424	0.000064	1.34 x 10 ⁻⁶	"	1.04	0.0615	0.000076	1.57 x 10 ⁻⁶	"	1.23	0.0728	0.000081	1.68 x 10 ⁻⁶	"	1.58	0.0939	0.000087	1.81 x 10 ⁻⁶	"	1.65	0.0981	0.000094	1.96 x 10 ⁻⁶	"	1.95	0.1163	0.000099	2.07 x 10 ⁻⁶	"	2.27	0.1358	0.00011	2.31 x 10 ⁻⁶	"	2.43	0.1456	0.00013	2.73 x 10 ⁻⁶	"	2.53 ^b	0.1517	0.00015	3.15 x 10 ⁻⁵	solid solution + CsIO ₃	2.53 ^b	0.1517	0.00015	3.15 x 10 ⁻⁶	"	2.61	0.1566	-	-	CsIO ₃
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METHOD/APPARATUS/PROCEDURE: Isothermal method used. Equilibrium required 25-30 days. Solid and liquid phases analyzed for Cs by emission spectrometry using solutions of Cs concentration between 0.1 - 100 µg cm ⁻³ in the presence of 2 % NaCl solution (added to suppress the ionization of Cs atoms). Preliminary experiments established that Hf does not influence the intensity of the emission of Cs. The concentration of Cs was therefore determined by comparing samples of saturated solution previously buffered with 2 % NaCl solution with standard Cs solutions also buffered with 2 % NaCl solution. For liquid phase samples, Hf was determined photometrically using Arsenazo III after reduction of IO ₃ with hydroxylamine. For solid phase samples, Cs was analyzed as described above and iodate by iodometric titr. The Hf content was determined by difference. Solid phase samples were identified by the method of residues and by X-ray diffraction. The maximum concentration of CsIO ₃ in the solid solution is 5.8 %.	SOURCE AND PURITY OF MATERIALS: "Highly pure" CsIO ₃ was used. Hf(IO ₃) ₄ was prepared from aqueous HIO ₃ and freshly precipitated hydrated hafnium oxide under conditions described previously (1). No other information given. ESTIMATED ERROR: Soly: uncertainty in analyses did not exceed 3-8 rel %. Temp: precision given as ± 0.1 K. REFERENCES: 1. Deabriges, J.; Rohmer, R. <i>Bull. Soc. Chim France</i> 1968, 521.																																																																															

COMPONENTS: (1) Cesium iodate; CsIO_3 ; [13454-81-4] (2) Iodic acid; HIO_3 ; [7782-68-5] (3) Water; H_2O ; [7732-18-5]	ORIGINAL MEASUREMENTS: Tatarinov, V.A. <i>Uch. Zap. Varosl. Pedagog. Inst.</i> 1973, No. 120, 71-3.																																																												
VARIABLES: Composition at 298 K	PREPARED BY: Hiroshi Miyamoto																																																												
EXPERIMENTAL VALUES: Composition of saturated solutions <table border="1" data-bbox="137 483 1167 806"> <thead> <tr> <th rowspan="2">mass %</th> <th colspan="2">CsIO_3</th> <th rowspan="2">mass %</th> <th colspan="2">HIO_3</th> <th rowspan="2">Nature of the solid phase^a</th> </tr> <tr> <th>mol % (compiler)</th> <th></th> <th>mol % (compiler)</th> <th></th> </tr> </thead> <tbody> <tr> <td>2.67^b</td> <td>0.160</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>A</td> </tr> <tr> <td>2.65</td> <td>0.160</td> <td></td> <td>0.61</td> <td>0.064</td> <td></td> <td>A+C</td> </tr> <tr> <td>1.12</td> <td>0.0683</td> <td></td> <td>3.31</td> <td>0.353</td> <td></td> <td>C</td> </tr> <tr> <td>0.62</td> <td>0.048</td> <td></td> <td>25.91</td> <td>3.484</td> <td></td> <td>"</td> </tr> <tr> <td>0.25</td> <td>0.036</td> <td></td> <td>66.33</td> <td>16.89</td> <td></td> <td>"</td> </tr> <tr> <td>0.17</td> <td>0.030</td> <td></td> <td>74.75</td> <td>23.38</td> <td></td> <td>C+B</td> </tr> <tr> <td>-</td> <td>-</td> <td></td> <td>75.25^b</td> <td>23.74</td> <td></td> <td>B</td> </tr> </tbody> </table> <p data-bbox="56 816 617 866">^a A = CsIO_3; B = HIO_3; C = $\text{CsIO}_3 \cdot \text{HIO}_3$</p> <p data-bbox="56 876 754 917">^b For binary systems the compiler computes the following:</p> <p data-bbox="137 927 521 967">soly of CsIO_3 = 0.0891 mol kg^{-1}</p> <p data-bbox="137 977 521 1018">soly of HIO_3 = 17.28 mol kg^{-1}</p>		mass %	CsIO_3		mass %	HIO_3		Nature of the solid phase ^a	mol % (compiler)		mol % (compiler)		2.67 ^b	0.160		-	-		A	2.65	0.160		0.61	0.064		A+C	1.12	0.0683		3.31	0.353		C	0.62	0.048		25.91	3.484		"	0.25	0.036		66.33	16.89		"	0.17	0.030		74.75	23.38		C+B	-	-		75.25 ^b	23.74		B
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METHOD/APPARATUS/PROCEDURE: The isothermal method was used. Equilibrium between the liquid and solid phases was established in 24 hours. The cesium iodate content in the samples was determined iodometrically, and HIO_3 determined by titration with base.	COMMENTS AND/OR ADDITIONAL DATA The phase diagram is given below (based on mass % units). 																																																												
SOURCE AND PURITY OF MATERIALS: Cesium iodate was prepared from iodic acid and cesium carbonate, and the product was recrystallized.																																																													
ESTIMATED ERROR: Nothing specified.																																																													

COMPONENTS: (1) Cesium iodate; CsIO ₃ ; [13454-81-4] (2) N,N-Dimethylformamide; C ₃ H ₇ NO; [68-12-2] (3) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Miyamoto, H.; Hasegawa, T.; Sano, H. <i>J. Solution Chem.</i> in press.																																
VARIABLES: Solvent Composition Temperature	PREPARED BY: M. Salomon																																
EXPERIMENTAL VALUES: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">t/°C = 20</th> <th colspan="2" style="text-align: center;">t/°C = 25</th> </tr> <tr> <th style="text-align: center;">mass % dimethylformamide</th> <th style="text-align: center;">CsIO₃/mol dm⁻³</th> <th style="text-align: center;">mass % dimethylformamide</th> <th style="text-align: center;">CsIO₃/mol dm⁻³</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0.0747</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0.0852</td> </tr> <tr> <td style="text-align: center;">4.79</td> <td style="text-align: center;">0.0570</td> <td style="text-align: center;">5.12</td> <td style="text-align: center;">0.0670</td> </tr> <tr> <td style="text-align: center;">9.47</td> <td style="text-align: center;">0.0458</td> <td style="text-align: center;">9.48</td> <td style="text-align: center;">0.0536</td> </tr> <tr> <td style="text-align: center;">20.84</td> <td style="text-align: center;">0.0231</td> <td style="text-align: center;">20.09</td> <td style="text-align: center;">0.0289</td> </tr> <tr> <td style="text-align: center;">30.22</td> <td style="text-align: center;">0.0132</td> <td style="text-align: center;">29.71</td> <td style="text-align: center;">0.0162</td> </tr> <tr> <td style="text-align: center;">41.99</td> <td style="text-align: center;">0.0054</td> <td style="text-align: center;">40.02</td> <td style="text-align: center;">0.0077</td> </tr> </tbody> </table>		t/°C = 20		t/°C = 25		mass % dimethylformamide	CsIO ₃ /mol dm ⁻³	mass % dimethylformamide	CsIO ₃ /mol dm ⁻³	0	0.0747	0	0.0852	4.79	0.0570	5.12	0.0670	9.47	0.0458	9.48	0.0536	20.84	0.0231	20.09	0.0289	30.22	0.0132	29.71	0.0162	41.99	0.0054	40.02	0.0077
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METHOD/APPARATUS/PROCEDURE: Same as in reference (1).	SOURCE AND PURITY OF MATERIALS: Extra pure grade Cs ₂ CO ₃ and guaranteed grade HIO ₃ used as received. CsIO ₃ pptd by addn of excess HIO ₃ sln to aq Cs ₂ CO ₃ sln while heating. After stirring for 5 h, the sln was allowed to settle for 1 day, and the ppt washed with cold water until the dried salt produced a constant soly. The salt was stored in the dark. Guaranteed grade dimethylformamide (Wako) was stored over BaO for two days, and then distilled three times under reduced pressure. Doubly distilled water had an electrolytic conductance of 9.8 x 10 ⁻⁷ S cm ⁻¹ . ESTIMATED ERROR: Soly: standard deviation between 0.0002 and 0.001. Temp: not stated. REFERENCES: 1. Miyamoto, H.; Shimura, H.; Sasaki, K. <i>J. Solution Chem.</i> <u>1985</u> , <i>14</i> , 485.																																

COMPONENTS:	ORIGINAL MEASUREMENTS:
(1) Cesium iodate; CsIO ₃ ; [13454-81-4]	Miyamoto, H.; Hasegawa, T.; Sano, H.
(2) N,N-Dimethylformamide; C ₃ H ₇ N ₀ ; [68-12-2]	<i>J. Solution Chem.</i> in press.
(3) Water; H ₂ O; [7732-18-5]	

EXPERIMENTAL VALUES: (Continued)

t/°C = 30

mass % dimethylformamide	CsIO ₃ /mol dm ⁻³
0	0.0990
5.53	0.0750
11.49	0.0563
19.81	0.0341
29.79	0.0190
40.33	0.0086

For the binary CsIO₃-H₂O system, measured densities of saturated solutions permits conversions from mol dm⁻³ to mol kg⁻¹ and mole fraction units.

t/°C	density/g cm ⁻³	c/mol dm ⁻³	m/mol kg ⁻¹	mole fraction
20	1.019	0.0747	0.0750	0.00135
25	1.020	0.0852	0.0857	0.00154
30	1.022	0.0990	0.0998	0.00180

COMPONENTS: (1) Cesium iodate; CsIO ₃ ; [13454-81-4] (2) Dimethylsulfoxide ; C ₂ H ₆ OS; [67-88-5] (3) Water; H ₂ O; [7732-18-5]	ORIGINAL MEASUREMENTS: Miyamoto, H.; Hasegawa, T.; Sano, H. <i>J. Solution Chem.</i> in press.																																								
VARIABLES: Solvent composition Temperature	PREPARED BY: M. Salomon																																								
EXPERIMENTAL VALUES: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3" style="text-align: center;">CsIO₃ soly/mol dm⁻³</th> </tr> <tr> <th style="text-align: center;">mass % dimethylsulfoxide</th> <th style="text-align: center;">t/° C =</th> <th style="text-align: center;">20</th> <th style="text-align: center;">25</th> <th style="text-align: center;">30</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td></td> <td style="text-align: center;">0.0747</td> <td style="text-align: center;">0.0852</td> <td style="text-align: center;">0.0990</td> </tr> <tr> <td style="text-align: center;">5.03</td> <td></td> <td style="text-align: center;">0.0580</td> <td style="text-align: center;">0.0684</td> <td style="text-align: center;">0.0806</td> </tr> <tr> <td style="text-align: center;">10.02</td> <td></td> <td style="text-align: center;">0.0461</td> <td style="text-align: center;">0.0550</td> <td style="text-align: center;">0.0643</td> </tr> <tr> <td style="text-align: center;">20.09</td> <td></td> <td style="text-align: center;">0.0270</td> <td style="text-align: center;">0.0328</td> <td style="text-align: center;">0.0378</td> </tr> <tr> <td style="text-align: center;">30.01</td> <td></td> <td style="text-align: center;">0.0149</td> <td style="text-align: center;">0.0182</td> <td style="text-align: center;">0.0211</td> </tr> <tr> <td style="text-align: center;">40.03</td> <td></td> <td style="text-align: center;">0.0076</td> <td style="text-align: center;">0.0092</td> <td style="text-align: center;">0.0106</td> </tr> </tbody> </table>				CsIO ₃ soly/mol dm ⁻³			mass % dimethylsulfoxide	t/° C =	20	25	30	0		0.0747	0.0852	0.0990	5.03		0.0580	0.0684	0.0806	10.02		0.0461	0.0550	0.0643	20.09		0.0270	0.0328	0.0378	30.01		0.0149	0.0182	0.0211	40.03		0.0076	0.0092	0.0106
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METHOD/APPARATUS/PROCEDURE: Same as in reference (1).	SOURCE AND PURITY OF MATERIALS: Extra pure grade Cs ₂ CO ₃ and guaranteed grade HIO ₃ used as received. CsIO ₃ pptd by addn of excess HIO ₃ sln to aq Cs ₂ CO ₃ sln while heating. After stirring for 5 h, the sln was allowed to settle for 1 day, and the ppt washed with cold water until the dried salt produced a constant soly. The salt was stored in the dark. Guaranteed grade dimethyl sulfoxide (Wako) was distilled three times under reduced pressure. Doubly distilled water had an electrolytic conductance of 9.8 x 10 ⁻⁷ S cm ⁻¹ . ESTIMATED ERROR: Soly: stnd deviation between 0.0002 and 0.001 Temp: not stated. REFERENCES: 1. Miyamoto, H.; Shimura, H.; Sasaki, K. <i>J. Solution Chem.</i> <u>1985</u> , <i>14</i> , 485.																																								