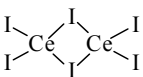


114	Ce₂I₆	Cerium triiodide dimer	C_{2v} assumed																
ED, IR		Di- <i>μ</i> -iodo-tetraiododicerium																	
	<table> <tr> <th><i>r</i>_a</th> <th>Å ^{a)}</th> </tr> <tr> <td>Ce–I(t)</td> <td>2.948(9) ^{c)}</td> </tr> <tr> <td>Ce–I(b)</td> <td>3.207(238)</td> </tr> </table>	<i>r</i> _a	Å ^{a)}	Ce–I(t)	2.948(9) ^{c)}	Ce–I(b)	3.207(238)	<table> <tr> <th><i>θ</i> ^{b)}</th> <th>deg</th> </tr> <tr> <td>I(b)–Ce–I(b)</td> <td>90 ^{d)}</td> </tr> <tr> <td>I(t)–Ce–I(t')</td> <td>114 ^{d)}</td> </tr> <tr> <td><i>φ</i> ^{e)}</td> <td>25 ^{d)}</td> </tr> <tr> <td><i>δ</i> ^{f)}</td> <td>25 ^{d)}</td> </tr> </table>	<i>θ</i> ^{b)}	deg	I(b)–Ce–I(b)	90 ^{d)}	I(t)–Ce–I(t')	114 ^{d)}	<i>φ</i> ^{e)}	25 ^{d)}	<i>δ</i> ^{f)}	25 ^{d)}	
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<i>δ</i> ^{f)}	25 ^{d)}																		

According to thermodynamic calculations, the vapor over CeI₃ consisted of *ca.* 4.5% dimeric molecules besides the monomeric form.

The nozzle temperature was 1274 K.

^{a)} Uncertainties were unidentified, possibly estimated total errors.

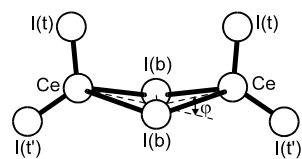
^{b)} Unidentified, possibly θ_a .

^{c)} Assumed to be equal to the monomer distance, r_g value.

^{d)} Assumed at the estimated value.

^{e)} Puckering of the ring, see figure.

^{f)} Angle between the Ce–I(t') bond and the I(b)–Ce–I(b) plane.



Molnár, J., Konings, R.J.M., Kolonits, M., Hargittai, M.: J. Mol. Struct. **375** (1996) 223.