

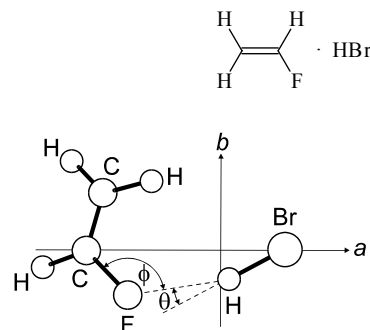
<b>253</b> MW	<b>C<sub>2</sub>H<sub>4</sub>BrF</b>	<b>Fluoroethene – hydrogen bromide (1/1)</b> (weakly bound complex)	<b>C<sub>s</sub></b> (effective symmetry class) (large-amplitude motion)
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$r_0$	Å <sup>a)</sup>	$\theta_0$	deg <sup>a)</sup>
F...H	2.205(9)	$\theta^b$	20.0(1)
		$\phi^b$	123.8(5)

A detailed interpretation of the  $\chi$  tensor leads to the conclusion that the complex is planar, or nearly so.

<sup>a)</sup>  $\psi = 0$  assumed;  $\psi$  is the dihedral angle between the FCC and FHBr planes.

<sup>b)</sup> See figure for the definition.



Legon, A.C., Ottaviani, P.: Phys. Chem. Chem. Phys. **4** (2002) 4103.