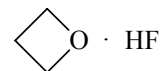


419  
MW**C<sub>3</sub>H<sub>7</sub>FO****Oxetane – hydrogen fluoride (1/1)**  
(weakly bound complex)**C<sub>s</sub>**  
(effective symmetry class)  
(large-amplitude motion)

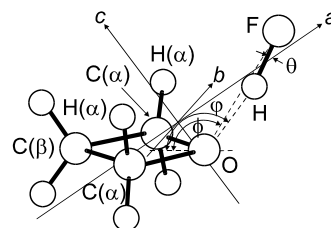
$r_0$	Å <sup>a)</sup>	$\theta_0$	deg <sup>a)</sup>
C(α)–C(β)	1.565(6)	C(α)–C(β)–C(α)	83.5(5)
C(α)...C(α)	2.0833(7)	C(β)–C(α)–O	91.1(5)
C(α)–O	1.419(11)	C(α)–O–C(α)	94.5(10)
C(β)...O	2.132(11)	$\varphi^b$	125.5(5)
O...F	2.579(12)	$\phi^b$	129(2)
O...H	1.66(5)	$\theta^b$	10(6)
F...H(α)	3.17(3)		



HF lies in the symmetry plane bisecting the COC ring angle. A planar ring configuration of oxetane subunit in the complex shows no significant structural changes upon complexation.

<sup>a)</sup> Estimated standard errors.

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



Sanz, M.E., Sanz, V.M., López, J.C., Alonso, J.L.: Chem. Phys. Lett. **342** (2001) 31.

Replaces [II/25C \(3, 1312\)](#)