

33 **CF₂** **Difluoromethylene** **C_{2v}**
UED Difluorocarbene



$r^a)$	$\text{\AA}^b)$
C–F	1.30(2)
F...F	2.06(6)

The CF₂ radical was a product of the removal of I atoms from CF₂I₂ within 4 ps by a pulsed UV laser. It was found to be in the \tilde{X}^1A_1 ground electronic state. The structural parameters of coexisting CF₂I₂ molecule were assumed at the literature values.

^{a)} Unidentified, possibly r_a .

^{b)} Three times the estimated standard errors including a systematic error.

Cao, J., Ihee, H., Zewail, A.H.: Chem. Phys. Lett. **290** (1998) 1.

MW

r_e	$\text{\AA}^a)$	θ_e	deg ^{a)}
C–F	1.2972(10)	F–C–F	104.858(100)

^{a)} Uncertainties were not estimated in the original paper.

Demaison, J., Margulès, L., Martin, J.M., Boggs, J.E.: Phys. Chem. Chem. Phys. **4** (2002) 3282.

See also: Margulès, L., Demaison, J., Boggs, J.E.: J. Phys. Chem. A **103** (1999) 7632.

[II/25B\(3, 80\)](#)