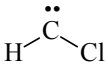
68 **CHCl** **Chloromethylene** **C_s**

UV



State	$\tilde{X}\ ^2A'$
Energy [eV]	0.00
r_m(C−H) [Å]	1.1002(11)
r_m(C−Cl) [Å]	1.69254(21)
θ_m(H−C−Cl) [deg]	102.669(70)

DCCl radicals were generated by the laser-photolysis of $DCBr_2Cl$. Near-infrared absorption spectra were obtained using frequency-modulated laser absorption spectroscopy of jet-cooled and ambient temperature samples. Rotational analysis gave improved ground state rotational constants for $DC^{35}Cl$ and $DC^{37}Cl$. When combined with existing data for HCCl using Watson's $r_m^{(1)}$ model, an improved geometry for the ground state was obtained.

Lin, A., Kobayashi, K., Yu, H-G., Hall, G.E., Muckerman, J.T., Sears, T.J., Merer, A.J.: J. Mol. Spectrosc. **214** (2002) 216.

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