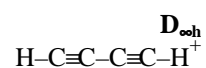


1501
LIF

C₄H₂⁺

1,3-Butadiyne cation
Diacetylene cation



State	$\tilde{X}^2\Pi_g$	$\tilde{A}^2\Pi_u$
Energy [eV]	0.0	2.445
r_s [Å] C-H	1.046(10) ^{a)}	1.045(10)
C≡C	1.234(10)	1.243(10)
C-C	1.346(10)	1.410(10)

Rotational analysis of HCCCCCH⁺, H¹³CCCCCH⁺, H¹³C¹³CCCH⁺ and DCCCCD⁺.

^{a)} Error limits are 2σ.

Maier, J.P.: Int. Rev. Phys. Chem. **9** (1990) 281.