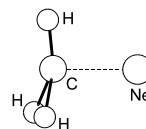


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IR CH_3Ne^+ **Methylium – neon (1/1)**
(weakly bound complex) C_{3v}
(effective symmetry class)
(large-amplitude motion) $\text{CH}_3^+ \cdot \text{Ne}$

ν	$R_{\text{cm}} [\text{\AA}]^a$
0	2.300(3)
1	2.308(3)



The structure of the π -bound complex was determined from the rotationally resolved IR photodissociation spectrum of the degenerate asymmetric C–H stretch vibration ν_3 . The geometry of the methylium subunit was assumed to be unchanged upon complexation.

^a) Uncertainties were unidentified.

Dopfer, O., Olkhov, R.V., Maier, J.P.: J. Chem. Phys. **112** (2000) 2176.