148 **CMgN** **Magnesium(I) isocyanide** **$C_{\infty v}$**

MW Mg–N=C

r_s	Å [a])
Mg–N	1.92607(19)
N=C	1.16878(17)

[a]) Estimated standard errors.

Kagi, E., Kawaguchi, K.: J. Mol. Spectrosc. **199** (2000) 309.

LIF

The $\tilde{A}\,^2\Pi - \tilde{X}\,^2\Sigma^+$ transition of MgNC has been recorded at high-resolution and rotational assignments given. The rotational constants for the ground state agree with values obtained from MW spectroscopy and values are given for excited state levels, but no structural parameters have been obtained [1]. However, two theoretical papers suggest that some reassignments of the excited state levels may be needed [2,3].

[1] Wright, R.R., Miller, T.A.: J. Mol. Spectrosc. **194** (1999) 219.
[2] Odaka, T.E., Taketsugu, T., Hirano, T., Nagashima, U.: J. Chem. Phys. **115** (2001) 1349.
[3] Odaka, T.E., Hirano, T., Jensen, P.: J. Mol. Spectrosc. **211** (2002) 147.

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