146 **CInN** **Indium(I) isocyanide** $C_{\infty v}$

MW In–N=C

r_0	Å [a])
In–N	2.137(6)
N=C	1.135(11)

$r_{I\varepsilon}$ [b])	Å [a])
In–N	2.1528(14)
N=C	1.1279(12)

$r_m^{(1)}$ [c])	Å [a])
In–N	2.1622(20)
N=C	1.1327(11)

$r_m^{(2)}$ [d])	Å
In–N	2.1508 [e])
N=C	1.1472 [e])

Molecular geometry determined from the rotational constants using a linear model has revealed unexpectedly short N=C bond length, and is interpreted in terms of a broadened potential well for the bending mode.

[a]) Estimated standard errors.
[b]) $\varepsilon_0 = -1.41(11)$ u Å^2 included in the fit.
[c]) $c = -0.220(16)$ u^{½} Å included in the fit.
[d]) $c = -0.573$ u^{½} Å, $d = 1.41$ u^{½} Å^2 included in the fit.
[e]) Exact calculation from data for four isotopomers.

Walker, K.A., Evans, C.J., Suh, S.-H.K., Gerry, M.C.L., Watson, J.K.G.: J. Mol. Spectrosc. **209** (2001) 178.