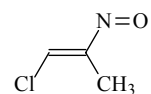


368  
MW**C<sub>3</sub>H<sub>4</sub>ClNO****(1*E*)-1-Chloro-2-nitroso-1-propene****C<sub>s</sub>**

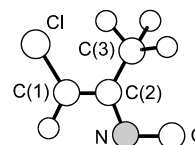
$r_0$	Å
C(2)–N	1.430(3)
C(2)–C	1.492(3)

$\theta_0$	deg
C(1)=C(2)–N	110.2(5)
C(1)=C(2)–C	127.9(5)
C(2)=C(1)–Cl	124.0(5)



Atom	$ a_s $ [Å]	$ b_s $ [Å]	$ c_s $ [Å]
Cl	2.174	0.23	0.0 <sup>a)</sup>
N	1.689	0.760	0.0 <sup>a)</sup>

The molecule was found to exist as a *syn* conformer. The internal rotation potential barrier was determined to be 680 cal mol<sup>−1</sup> (2.85 kJ mol<sup>−1</sup>).



<sup>a)</sup> Assumed.

Sakaizumi, T., Harima, D., Usami, T., Togashi, M., Yamamoto, K., Kuze, N., Ohashi, O.: J. Mol. Struct. **612** (2002) 143.