

## Structure Data of Free Polyatomic Molecules

<b>152</b>	<b>CN<sub>2</sub>O</b>	<b>Carbon monoxide – dinitrogen (1/1)</b>	<b>C<sub>2v</sub></b>
MW		(weakly bound complex)	(effective symmetry class) (large-amplitude motion)
			CO · N <sub>2</sub>

State	$r_0(R_{\text{cm}})$ Å <sup>a)</sup>
$K=0$	4.0256(5)
$K=1$	4.0057(5)

Two sets of spectra were observed for <sup>14</sup>N<sub>2</sub> and <sup>15</sup>N<sub>2</sub> species, whereas only one for <sup>14</sup>N<sup>15</sup>N. One set was assigned to  $K = 0$  of *ortho*-<sup>14</sup>N<sub>2</sub> and the other to  $K = 1$  of *para*-<sup>14</sup>N<sub>2</sub>. The intermolecular stretching force constant is 0.30 N m<sup>-1</sup>.

<sup>a)</sup> Uncertainties were not estimated in the original paper.

Kawashima, Y., Ohshima, Y., Endo, Y.: Chem. Phys. Lett. **315** (1999) 201.

See also: Xu, Y., Jäger, W.: J. Chem. Phys. **113** (2000) 514.

Surin, L.A., Müller, H.S.P., Alieva, E.V., Dumesh, B.S., Winnewisser, G., Pak, I.: J. Mol. Struct. **612** (2002) 207.

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