

43
MW

 $\text{Ar}_2\text{N}_2\text{O}$
Dinitrogen monoxide – argon (1/2)
(weakly bound complex)

 C_s
(effective symmetry class)
(large-amplitude motion)
 $\text{N}_2\text{O} \cdot 2\text{Ar}$

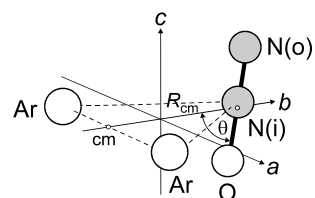
r_0	\AA^a	θ_0	deg^a
Ar...N(i) ^b	3.4742(30)	θ^c	78.87(20)
Ar...Ar	3.8419(30)	Ar...N(i)=O ^b	79.55(30)
R_{cm}	2.8795(20)	Ar...N(i)...Ar ^b	67.13(30)
r_z	\AA^a	θ_z	deg^a
Ar...N(i) ^b	3.4806(30)	θ^c	82.66(20)
Ar...Ar	3.8466(30)	Ar...N(i)=O ^b	82.68(30)
R_{cm}	2.8905(20)	Ar...N(i)...Ar ^b	67.09(30)

The complex was found to have a distorted tetrahedral structure with the rare gas atoms tilted towards the O atom of the N_2O subunit.

^a) Uncertainties were not estimated in the original paper.

^b) N(i) denotes the inner nitrogen of N_2O .

^c) Angle between R_{cm} and the N_2O axis.



Ngarĩ, M.S., Jäger, W.: J. Chem. Phys. **111** (1999) 3919.