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MW**N₂Ne₂O****Dinitrogen monoxide – neon (1/2)**
(weakly bound complex)**C_s**
(effective symmetry class)
(large-amplitude motion)
N₂O · 2Ne

r_0	Å ^{a)}	θ_0	deg ^{a)}
Ne...N(i) ^{b)}	3.2336(30)	θ ^{c)}	77.02(20)
Ne...Ne	3.3074(30)	Ne...N(i)=O ^{b)}	77.60(30)
R_{cm}	2.7611(20)	Ne...N(i)...Ne ^{b)}	61.52(30)

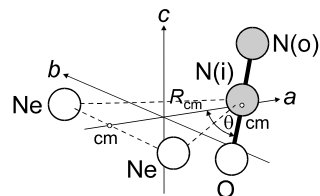
r_z	Å ^{a)}	θ_z	deg ^{a)}
Ne...N(i) ^{b)}	3.2526(30)	θ ^{c)}	77.24(20)
Ne...Ne	3.3229(30)	Ne...N(i)=O ^{b)}	77.78(30)
R_{cm}	2.7789(20)	Ne...N(i)...Ne ^{b)}	61.44(30)

The complex was found to have a distorted tetrahedral structure with the rare gases tilted towards the O atom of the N₂O subunit.

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

^{b)} N(i) denotes the inner nitrogen of N₂O.

^{c)} Angle between R_{cm} and the N₂O axis.



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