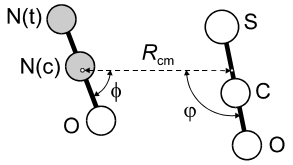
155 **CN_2O_2S** **Carbonyl sulfide – dinitrogen monooxide (1/1)** **C_s**
MW (weakly bound complex) (effective symmetry class)
(large-amplitude motion)
O=C=S · N_2O

r_0	Å [a])
R_{cm}	3.5166(2)

θ_0	deg [a])
$\theta(N_2O)$ [b])	68.5(3)
$\theta(OCS)$ [c])	99.6(2)



Atom	a_0 [Å]	b_0 [Å]
N(t)	–2.594	–0.790
N(c)	–2.046	0.200
S	1.173	–1.185

The effective structure of the complex is approximately slipped parallel, with oxygen in N_2O and sulfur in OCS occupying the obtuse vertices of the quadrilateral formed by the two subunits.

[a]) Estimated standard errors.
[b]) Angle between R_{cm} and the N_2O axis.
[c]) Angle between R_{cm} and the OCS axis.

Leung, H.O., Osowski, A.M., Oyeyemi, O.A.: J. Chem. Phys. **114** (2001) 4829.