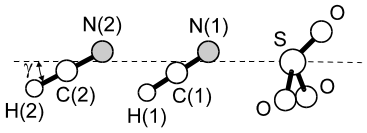
223 **$C_2H_2N_2O_3S$** **Hydrogen cyanide – sulfur trioxide (2/1)** **C_{3v}**
MW (weakly bound complex) (effective symmetry class)
(large-amplitude motion)
$2(HC{\equiv}N) \cdot SO_3$

r_0	Å	θ_0	deg
N(1)...S	2.470(20)	N(1)...S=O	92.2(6)
N(2)...H(1)	2.213(29)	γ [a])	9.4(10) [b])

The results indicate significant changes in the $HCN \cdot SO_3$ subunit upon interaction with a single HCN "solvent" molecule, with relatively little change in the HCN...HCN interaction.



[a]) Deviation of HCN(2) from the equilibrium C_3 axis of the complex. See figure for the definition.
[b]) Uncertainty was not estimated in the original paper.

Fiacco, D.L., Hunt, S.W., Leopold, K.R.: J. Phys. Chem. A **104** (2000) 8323.