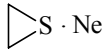


Structure Data of Free Polyatomic Molecules

270 MW	C₂H₄NeS	Thiirane – neon (1/1) (weakly bound complex)	C_s (effective symmetry class) (large-amplitude motion)
	$\frac{r_0}{R_{\text{cm}}}$ $\frac{\text{\AA}^{\text{a})}}{3.695(5)}$	$\frac{\theta_0}{\varphi^{\text{b})}}$ $\frac{\text{deg}^{\text{a})}}{103.5(5)}$	

Each rotational line appeared as a doublet, and the mean frequency of the doublet was fitted to a Hamiltonian for a rigid asymmetric top molecule.

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

^{b)} Angle between the vector from the center of mass of thiirane to neon and the bisector of the C–S–C bond angle.

Petitprez, D., Kass, S., Wlodarczak, G.: 16th Coll. High Res. Mol. Spectrosc., Dijon, France (1999) O4.