

# Structure Data of Free Polyatomic Molecules

|           |                       |                 |                         |                   |                                     |
|-----------|-----------------------|-----------------|-------------------------|-------------------|-------------------------------------|
| 257<br>IR | <b>H<sub>2</sub>S</b> |                 | <b>Hydrogen sulfide</b> |                   | C <sub>2v</sub><br>H <sub>2</sub> S |
|           | $r_e$                 | Å <sup>a)</sup> | $\theta_e$              | deg <sup>b)</sup> |                                     |
|           | S–H                   | 1.336024(34)    | H–S–H                   | 92.3307(2)        |                                     |

The structure was obtained by a refinement of the potential energy surface for the electronic ground state in a least-squares fit to experimental high-resolution spectroscopic data of 31 vibrational states.

<sup>a)</sup> Estimated standard error.

<sup>b)</sup> Uncertainty was not estimated in the original paper.

Polyansky, O.L., Jensen, P., Tennyson, J.: J. Mol. Spectrosc. **178** (1996) 184.

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