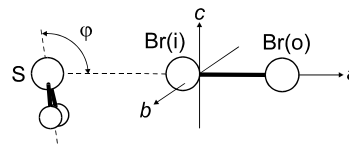


101
MW**Br₂H₂S****Dibromine – hydrogen sulfide (1/1)**
(weakly bound complex)**C_s**
(effective symmetry class)
(large-amplitude motion)
Br₂ · H₂S

r_0	Å	θ_0	deg
S...Br(i)	3.1785(1)	φ^a	98.54(8)

The geometry of the complex is of C_s symmetry, with Br₂ subunit lying approximately perpendicular to the plane of the H₂S nuclei and forming a bromine bond to S. The structural parameters were obtained under the assumption of unperturbed monomer geometries and collinear S...Br(i)–Br(o). The stretching force constant is 9.6 N m^{–1}.



^a) See figure for the definition.

Legon, A.C., Thumwood, J.M.A.: Phys. Chem. Chem. Phys. **3** (2001) 2758.