

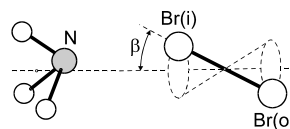
102
MW

 $\text{Br}_2\text{H}_3\text{N}$
Ammonia – dibromine (1/1)
(weakly bound complex)

 C_{3v}
(effective symmetry class)
(large-amplitude motion)
 $\text{NH}_3 \cdot \text{Br}_2$

r_s	$\text{\AA}^{\text{a}) \text{b})}$
Br–Br	2.335(10)
N...Br(i)	2.72(2)

Atom	$z_s [\text{\AA}]^{\text{a}) \text{b})}$
Br(i)	–0.75
Br(o)	1.549
N	–3.45



The intermolecular stretching force constant k_σ is estimated to be 18.5 N m^{-1} .

^{a)} Assuming $\beta = 10(3)^\circ$.

^{b)} In $\text{H}_3^{15}\text{N} \cdots \text{Br}_2$.

Bloemink, H.I., Legon, A.C.: J. Chem. Phys. **103** (1995) 876.