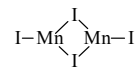


| | | | |
|------------|------------------------------------|--|---------------|
| 291 | I₄Mn₂ | Di-μ-iodo-bis[iodomanganese(II)] | (see comment) |
| ED | | Di- μ -iodo-diiododimanganese | |

| r_g | Å ^{a)} | θ_a | deg ^{a)} |
|-------------------------------------|--------------------|--------------|-------------------|
| Mn–I(t) | 2.548(40) | I(b)–Mn–I(b) | 107(6) |
| Mn–I(b) | 2.746(48) | | |
| $\Delta(\text{Mn–I})$ ^{b)} | 0.01 ^{c)} | | |



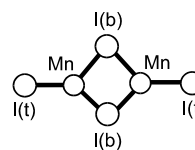
The MnI₂ molecule was found to exist as a mixture of monomeric (93(2) mol%) and dimeric (7(2) mol%) forms. The experimental data were consistent with the usual dimer model with two halogen bridges, but they were insufficient to determine the dimer structure unambiguously because of large uncertainties in the ring puckering angle and the out-of-plane bending angles for the terminal I atom.

The nozzle temperature was 908 K.

^{a)} Estimated total errors.

^{b)} Difference between the Mn–I(t) distance of the dimer and the Mn–I distance of the monomer.

^{c)} Assumed.



MacKenzie, A., Kolonits, M., Hargittai, M.: Struct. Chem. **11** (2000) 203.