

| | | | |
|-----------|--------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 689 IR | C₆ArO₆W | Tungstenhexacarbonyl – argon (1/1) (weakly bound complex) | C_{3v} assumed (effective symmetry class) (large-amplitude motion) W(CO) ₆ · Ar |
|-----------|--------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

| | |
|--------|-----------------|
| r_0 | $\text{\AA}^a)$ |
| W...Ar | 4.482(2) |

The experimental rovibrational spectra could be rationalized by assuming a structure in which the rare gas atom lodges amongst three different carbonyl groups on a C₃ axis of the hexacarbonyl monomer subunit. Its geometry was assumed to be unchanged upon complexation.

^a) Estimated standard error.

Hansford, G.M., Davies, P.B.: J. Chem. Phys. **104** (1996) 8292.

