Vibrational study of the complexes pentamethylcyclopentadienyldicarbonylhalide-(dimethylphosphonate)rhenium(III): trans-(?5-C5Me5)Re(CO)2[PO(OMe)2]X, X = Cl, Br and I

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Infrared spectra of solids Cp*Re(CO)2[PO(OMe)2]X, where Cp* = ?5-C5Me5 and X = Cl, Br and I, were recorded. An assignment is offered in which the normal modes are described in terms of "local symmetry". This assignment is discussed in terms of previous assignments given for related compounds, and is supported by a simple normal coordinate analysis. © 1992.