## Coordinating properties of some solvents in Cr(CO)5L complexes

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The influence of the donor-acceptor properties of several solvents on the Cr(CO)5 group in the solid [Cr(CO)5·solvent] complexes has been examined by spectroscopic methods. Relationships were found between the acceptor number of solvent with the ? acceptor ability (Graham ? parameter) and with the ?max for the ligand field 1A1 ? 1E transition, in the carbonyl chromium complexes. These relations are discussed in terms of the dative metal-ligand ? bonding. From these results, it is possible to demonstrate the ? contribution in the acceptor number. © 1988 Pergamon Press plc.