

In chemistry, a coordination complex or metal complex, consists of an atom or ion (usually metallic), and a surrounding array of bound molecules or anions, that are in turn known as ligands or complexing agents. Stoichiometry of metal complexes depends of coordination number of central atom (metal). In chemistry, the emphasis is on bonding structure in molecules or ions and the coordination number of an atom is determined by simply counting the other atoms to which it is bonded (by either single or multiple bonds). For example,  $[\text{Cr}(\text{NH}_3)_2\text{Cl}_2\text{Br}_2]^-$  has  $\text{Cr}^{3+}$  as its central cation, which has a coordination number of 6.