

Formula	Name	Type (Ionic or Covalent)	# of Valence Electrons	Lewis Dot Diagram	Molecular Shape (Linear, Bent , or Tetrahedral)
$4 + 18 + 2 = 24$ CO_3^{-2}	Carbonate ION	Coval	24		Trigonal planar
$2 + 14 = 16$ CaCl_2	Calcium chloride	Ionic	16		N/A
$4 + 4$ CH_4	Methane	Covalent	8		tetrahedral
NaCl	Sodium Chloride	Ionic	8		N/A
NH_3	Ammonia	Covalent	8		Trigonal pyramidal