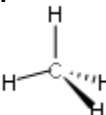
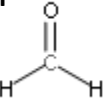


Orbital Sets for Hybridized Row 2 Atoms

Atom's Hybridization	Orbital Sets				Geometry
unhybridized	s (spherical)	p (two equal lobes)	p (two equal lobes)	p (two equal lobes)	-----
sp³ (four sp³ orbs)	sp ³ (one lobe larger than the other)	sp ³ (one lobe larger than the other)	sp ³ (one lobe larger than the other)	sp ³ (one lobe larger than the other)	Tetrahedral (109.5 °) 
sp² (three sp² orbs and one p orb)	sp ² (shorter/rounder than sp ³)	sp ² (shorter/rounder than sp ³)	sp ² (shorter/rounder than sp ³)	p (II bond or lone pair)	Tri. Planar (120 °) 
sp (two sp orbs and two p orbs)	sp (shorter/rounder than sp ²)	sp (shorter/rounder than sp ²)	p (II bond or lone pair)	p (II bond or lone pair)	Linear (180 °) 