

Molecular Models Lab

Molecule	Dot Structure	Structural Formula	Shape	Polar Bonds?	Polar Molecule?
H ₂					
Br ₂					
H ₂ O					
CO ₂					
PF ₃					
SO ₂					
SO ₄ ²⁻					
O ₂					
O ₃					
N ₂					
CH ₄					
CO ₃ ²⁻					
C ₂ H ₆					
C ₂ H ₄					
C ₂ H ₂					
* BF ₃					
* PCl ₅					
* SF ₆					
* NO ₂					
C ₆ H ₁₄					
** C ₆ H ₁₂					
** C ₆ H ₆					

- = Violation of octet rule. If there is not a lone, single star next to the formula, then that compound obeys the octet rule.
- ** = Ring-shaped compound. If there are not two stars next to the formula, then the structure is NOT in a circle.