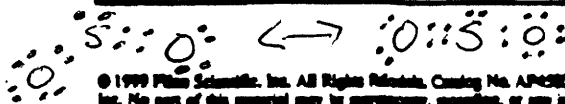


Honors Key p-1

Formula	Lewis Electron Dot Structure
1. H ₂	H:H NP 180 Linear
2. HCl	H:Cl: Linear 180 P
3. H ₂ O	H:O:H Bent LP Polar
4. NH ₃	H:N:H
5. CH ₄	H H:C:H H
6. CH ₂ Cl ₂	:Cl: H:C:H :Cl:
7. Cl ₂	:Cl:Cl:
8. HOCl	H:O:Cl:
9. O ₂	:O::O:
10. OH ⁻	[:O:H] ⁻¹
11. H ₃ O ⁺	[H:O:H] ⁺ H

Formula	Lewis Electron Dot Structure
12. NH ₄ ⁺	[H:N:H] ⁺ H
13. SO ₄ ²⁻	[O:S:O] ²⁻ O
14. N ₂	:N:::N:
15. CHCl ₃	H :Cl:C:Cl: :Cl:
16. C ₂ H ₆	H H H:C:C:H H H
17. CO ₂	:O::C::O:
18. CH ₃ OH	H H:C:O:H H
19. H ₂ O ₂	H:O:O:H
20. C ₂ H ₄	H H H:C:C:H H H
21. C ₂ H ₂	H:C:::C:H
22. SO ₂	RESONANCE SO₂



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Bent less than 120°

Key p. 2

Formula	Lewis Electron Dot Structure
1. H ₂	NP 180° sp linear
2. HCl	P 180 sp Linear
3. H ₂ O	P 105° sp ³ Bent
4. NH ₃	P 107° sp ³ Trig pyr
5. CH ₄	NP 109.5° sp ³ Tet
6. CH ₂ Cl ₂	NP sp ³ 109° Tet
7. Cl ₂	NP sp 180° Linear
8. HOCl Trig planar 120° H	sp ² C-Cl P
9. O ₂ Resonance Bent less 120°	P sp ²
10. OH ⁻	Linear sp P 180
11. H ₃ O ⁺	P sp ³ 109° Tet

Formula	Lewis Electron Dot Structure
12. NH ₃	P 109.5° sp ³ Tetra
13. SO ₂	P sp ³ Tetra 109
14. N ₂	NP sp 180° linear
15. CHCl ₃	P sp ³ Tetra 109
16. C ₂ H ₆ 109° NP	Tetra sp ³
17. CO ₂	sp NP 180° Linear
18. CH ₃ OH 109°	P 105° Tetra Bent C O
19. H ₂ O ₂	Bent P sp ³ 105
20. C ₂ H ₄ 180° 120°	c=c linear 180 c=c Trig planar 120
21. C ₂ H ₂	linear sp 180 NP
22. SO ₂ Resonance	sp ² Bent

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