

Name: _____

MolView: <http://molview.org/>

<https://www.youtube.com/channel/UCRP9nXCC59TMMtqc-bk1mi3A>

Report Form – Molecular Models

Chemical Formula	# Valence e's in Molecule	Lewis Structure	Name of VSEPR Arrangement (Geometry)	Name of Shape (Molecular Geometry)	Bond (Polar or Non-Polar)	Molecule (Polar or Non-Polar)	OPTIONAL 3 Dimensional Drawing	Resonance (Yes or No)
H ₂ O		<pre> O / \ H H </pre>				Polar		No
NH ₃		<pre> H H \ / N / \ H H </pre>				Polar		No
CH ₄		<pre> H H \ / C / \ H H </pre>						No
C ₂ H ₄		<pre> H H H H \ / \ / \ / \ C C C C / \ / \ / \ / H H H H </pre>	Around each C	Around each C	C-H C-C	Non-Polar		No
HCN		<pre> H C N \ / \ C N / \ / H C </pre>	Around C	Around C	H-C C-N	Polar		No
C ₂ H ₂		<pre> H C C H \ / \ / \ / \ C C C C / \ / \ / \ / H H H H </pre>	Around each C	Around each C	C-H C-C			No
SO ₃		<pre> O S O \ / \ S O / \ / O S </pre>				Non-Polar		Yes

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CBr_4		<pre> Br Br Br - C - Br Br Br </pre>						No
CO_2		<pre> O C O // \ </pre>						Yes
H_2S		<pre> S / \ H H </pre>						No
NF_3		<pre> F N F F F </pre>						No
SO_2		<pre> S / \ O O </pre>				Polar		Yes
CH_3OH		<pre> H C O H H C O H H H </pre>	Around C Around O	Around C Around O	C-H C-O O-H	Polar		No
$(\text{NO}_3)^-$		<pre> O N O // \ O </pre>				Polyatomic Ion		Yes

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N_2		<pre> N N : : </pre>						No
$(NH_4)^+$		<pre> H H \ / N / \ H H </pre>				Polyatomic Ion		No
PBr_3		<pre> Br Br \ / P / Br </pre>				Polar		No
$(NO_2)^-$		<pre> O N O \ / \ N </pre>				Polyatomic Ion		Yes
$(CO_3)^{2-}$		<pre> O C O \ / \ O </pre>				Polyatomic Ion		Yes
CH_2O		<pre> O C H \ / \ H </pre>						No