
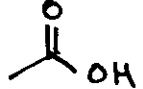


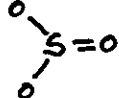
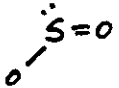



SUBSTANCE	STRUCTURE	ALL FORCES PRESENT (state if intramolecular or intermolecular etc.)	MACROMOLECULE OR DISCRETE COVALENT	SOLUBILITY IN H ₂ O (given state)	SOLUBILITY IN HEXANE (given state)	CONDUCTIVITY (given state)
ethyl alcohol (l)						
acetic acid (l)						
acetone (l)						
pentane (l)						
bromine (l)	Br - Br					
helium (g)	He					
wax (s)	C ₅₀ H ₁₀₂					
sulphur trioxide (g)						
sulphur dioxide (g)						

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diamond (s)	<pre> C-C-C-C-C-C- C-C-C-C-C-C- C-C-C-C-C-C- C-C-C-C-C-C- </pre>					
quartz (s)	<pre> Si-O-Si-O-Si- O O O Si-O-Si-O-Si- O O O </pre>					
ammonia (g)	<pre> .. N / \ H H H </pre>					
ammonia (l)	<pre> .. N / \ H H H </pre>					
ammonia (aq)	<pre> .. H-O: N / \ H H H </pre>			N.A.		
lithium fluoride (s)	<pre> Li⁺ F⁻ Li⁺ F⁻ F⁻ Li⁺ F⁻ Li⁺ Li⁺ F⁻ Li⁺ F⁻ </pre>					
brass (s) (alloy of Cu and Zn)	<pre> Cu Cu Cu Zn Cu Zn Cu Zn Cu Cu Cu Cu Cu Cu Zn </pre>					
bronze (s) (alloy of Cu Sn and Pb)	<pre> Cu Sn Cu Cu Cu Cu Cu Cu Sn Cu Cu Pb Cu Cu Cu </pre>					
graphite (s)						

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ammonium nitrate (s)	$\left[\begin{array}{c} \text{H} \\ \\ \text{H}-\text{N}-\text{H} \\ \\ \text{H} \end{array} \right]^+ \left[\begin{array}{c} \text{O} \\ \diagup \\ \text{N}=\text{O} \\ \diagdown \\ \text{O} \end{array} \right]^-$					
sodium sulphate (aq)	$2 [\text{Na}]^{+} \left[\begin{array}{c} \text{O} \\ \diagup \\ \text{O}-\text{S}-\text{O} \\ \diagdown \\ \text{O} \end{array} \right]^{2-}$			N.A.		
oxygen (l)	$\text{O}=\text{O}$					
silicon carbide (s)	$\begin{array}{cccc} -\text{Si}- & \text{C}- & \text{Si}- & \text{C}- \\ & & & \\ -\text{C}- & \text{Si}- & \text{C}- & \text{Si}- \\ & & & \\ -\text{Si}- & \text{C}- & \text{Si}- & \text{C}- \end{array}$					
calcium chloride (s)	$[\text{Ca}]^{2+} + 2 [\text{Cl}]^{-}$					
gold (s)	$\begin{array}{cccccc} \text{Au} & \text{Au} & \text{Au} & \text{Au} & \text{Au} \\ \text{Au} & \text{Au} & \text{Au} & \text{Au} & \text{Au} \\ \text{Au} & \text{Au} & \text{Au} & \text{Au} & \text{Au} \end{array}$					
NaCl (l)	$[\text{Na}]^{+} \quad [:\text{Cl}:]^{-}$					
Fe (g) Oooo! Hot!	Fe					
I ₂ (s)	$\begin{array}{cccc} \text{I}_2 & \text{I}_2 & \text{I}_2 & \text{I}_2 \\ \text{I}_2 & \text{I}_2 & \text{I}_2 & \text{I}_2 \end{array}$					