

AS Level Chemistry

11: Group 17

ALLEN HARRING
CAPITAL

I_2 (s) : pale yellow gas
 Cl_2 (g) : pale green gas
 Br_2 (l) : reddish brown liquid
 I_2 (s) : black solid / purple vapour

colour intensity increases down Grp 17.

6 p block elements
 oxidation number: -1 or 0. (can go up to +7 bc of vacant d orbitals - except F)

Atomic Radius

Trend: change overwhelmed by shielding, nuclear attraction remains same \downarrow nuclear **radius \uparrow**

MP/BP & Volatility

simple molecular structures \rightarrow weak D-D than molecules \rightarrow no. of electrons $\uparrow \rightarrow$ **boil pt \uparrow** \rightarrow **mp/bp \uparrow**
 \rightarrow diff. to separate molecules \rightarrow **volatility \downarrow**

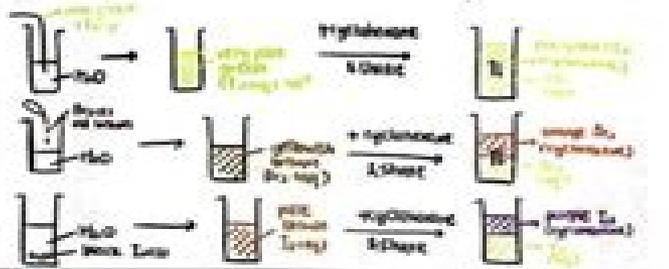
Solubility in water

oxidising power $\downarrow \rightarrow$ solubility \downarrow

F: - oxides water vigorously even at -100Kmp.
 $2F_2(g) + 2H_2O(l) \rightarrow 4HF(g) + O_2(g)$
 Cl: - disproportionates partially in water
 $Cl_2(g) + H_2O(l) \rightleftharpoons HCl(aq) + HClO(aq)$
 - chlorides are decomposed w/ strong oxidant
 $2HClO(aq) \rightarrow 2HCl(aq) + O_2(g)$
 Br: - moderately soluble in water \rightarrow forms equilibrium solⁿ mixture of $Br_2(aq)$ - H_2O formed negligible.
 I: - dissolves slightly in water to give pale yellow solⁿ.
 - soluble in KI solⁿ to form I_3^- (brown solⁿ)
 $I_2(s) + I^-(aq) \rightarrow I_3^-(aq)$

Solubility in Cyclohexane

immiscible in water \rightarrow forms 2 separate layers
 \rightarrow halogens dissolved \rightarrow distinctly diff. colours



Bond Energy

atomic radii $\uparrow \rightarrow$ **less effective orbital overlap** \rightarrow less attraction for shared pair \rightarrow increasing bond length \rightarrow **bond energy \downarrow** from Cl to I.

Why F-F bond isn't longest:

smallest valence orbitals \rightarrow LP of F repel each other \rightarrow weakens F-F bond (like phosphorus w/ arsenic solⁿ increases bc non bonding electrons have more space to spread out)

11.2 OXIDISING AGENT



molecular size \uparrow , **oxidising power \downarrow**
Not readily to gain e^- bc nuclear nuclear attraction less likely to be reduced
 oxidising power \downarrow

straight **A*** student's notes

A Level Chemistry Revision Notes

Hussin A.Rothana



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