PROPERTIES COMMON IN ALL METALS

\$ Solid.

\$ Shiny (metallic luster).

\$ Silver.

\$ Malleable & ductile --> layers of +ve ions can slide over each other.

\$ Good conductor of electricity (free moving electrons).

GROUP I

AKA Alkali metals.

PHYSICAL PROPERTIES

\$ Soft.

\$ Low melting point (Decreases down the group).

\$ Low density (Increases down the group).

\$ All their compounds are soluble in water.

CHEMICAL PROPERTIES

\$ Monovalent (one oxidation state).

\$ Lose 1 electron & form a +ve ion.

\$ Very reactive (Increases down the group).

"They're preserved in paraffin or Kerosene".

\$ No catalytic properties.

\$ Their compounds are white when solid & colorless when aqueous.

\$ React with cold water forming an alkali (soluble metal hydroxide).

"2Na + 2H2O --> 2NaOH + H2."

\$ React with Oxygen forming a metal oxide. "4Li + O2 --> 2Li2O."

\$ Their compounds never undergo thermal decomposition except group 1 nitrate.

"2NaNO3 ---> 2NaNO2 + O2."

~ Lithium has the highest melting point, the lowest density and the lowest reactivity.

~ Cesium is the most reactive in this group.



By anonymous_714

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