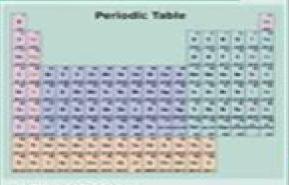


Inorganic Chemistry

What is inorganic chemistry? All of the chemistry not covered in carbon-centered organic and biochemistry—the remaining TO or so elements?

PERHODIC TABLE OF THE ELEMENTS.



Demental Forms

- s. Manutomic Noble Greec believe, neon. argion, krypton, sonon, rados; non-reactive b. Eliatomic moleculor.
- Gast fluiring chloring, hydrogen, oxygen, nitrogen E.Squidt Venterminer Northeth tendings
- a. Mulescalar wolld: collier
- d. Complete wolldt surbon ichtmond, graphmer
- s: Motal: most common type of element
 - High coordination numbers, very dense
 - Delocalized electrons form margy hands
- 2. Types of Compounds: large variety she to the "cosic covalent metallic" range
 - a. Besic electron enchange
 - b. Conslows: shared electrons
 - c. Pular covalent; integral charleg.
 - d. The energiest control ton * softens
 - s: Transition metal compounds
 - Conductive compound non-bonding ligands + Organisme walk: metal-C bond
 - f. Complex minurals: metal exides and
- 1. Periodicity: chemical properties of an chrowest depend on valonce electrons Family of elements: column in Periodic Table

Partiadic Transits

- a. Chemistry determined by salence electrons
- b. Atomic or ions gut a bit larger as you go down the column; electronic shells are indided.
- a. Cation and anions (some charge) doctrant

REACTIONS

Inorganic - many types of reactions

- Acid-Base punitralizations
- Dissociation of electrolytes in water
- Oxidation: In the Loss of electronic add oxygen
- Reduction: In the Guize of afectiones, noming excepts

TIP: Remarkler the according CHERICS

Precipitation: dissolved ions form solids Hodrobolic water results with a compensed Decreepedition of compounds to elements

CHEMISTRY OF THE METALS

- L. Group I: Alkali Metals
 - a. Configuration noble gas * I electron: south makement will
 - b. National accommodule occurs soften include inclinate after
 - e. Common magazine strong hose (NaOH), KOHEr ismic talts (NaCl. KICTS wolshife curbonate, mitrate. multiplier.
 - d. Bractlenc pure mutals react violently with water, mover fiscind in nature as pure metal. 2Na + 2Ht/O + 2NaOHtaqi + H/gi
 - g. Newflexile electrolysis of motion salts NaCliffe + Nadle + Class
 - E. Subution: water forms cage M+H.O. Hydroction #1 # (Lif's to 6-pC)." Hydraction emerger; versus fing ion and waters

2. Group II: Alkaline Earth Metals

- is. Configuration filled a calculabilit only mademost #2
- b. Natural accurrences minuted carbonates, silicates, ocean selta
- c. Reactions: China +2 HLO++ ChrOffEldwgl + HJagh

3. but Transition Series: Ti-Cu

- TI V Cr Mn Fe Co NI Cu Configuration: partially filled d-subshelt;
 - discover chamical and electronic properties b. Periodic Etendo electronegativity fairly constant, electrons obey Hand's Bule:
 - density increases with Z. e. Lipand Field Effect: sprit d-orbitals stabilizer

APP: white pulse pagewest.

THEL + HEO - THO.

TiCl. * R-OH * metal allowides

APP: attach organic groups to inorganic solids

EX: Manganese Chemistry

Valence tunges from it to T, d' to d'

Permanganate: MsO; awiditing agent.

Most VIEW appelle medicated

4. 2nd & 3rd Transition Series: Zr-Au-

20	No	990	Te	Rw	Site.	Pid	Ag
140	Tim	W	the	On	No.	84	Au

- a. Configuration comparable to the list Environment workers
- h. Enode in radii: "lanthanish contraction."

delita bond

- maintained charage int tradii for latter Z. would acresming Circum E-confinitude
- c. No-Mi multiple: Beerfaller Treat poul! Swill nerview afternoon comprounds; delta

w

Sec. at

86

Mills.

CH

State of

PROPERTY.

Cal

See

Mar.

sits bond. face-face d-orbitals

EX: Totosacotote of Mo, Rh.A.Ra-

 Complex molecular structure: NHF, exists as a full reduced

#47 Silver normally a non-neutive metal. Silver results with S • AgS - albor turnish AgiD + boot + Ag

BIK2 Mody bekennen.

Quadruple Mt-Mt Bernard

Minh bilanc MinOr tetrahadoul - no former prairies

Halides: McF., dimer - Ma.Cl.,

#43 Technocilians: syncholic alement

5. Platinum Metals: Ru. Os. Rh. Ir. Pd. Pt.

- a. Oxidation state (9-8); responses platinute APP: cistalysts für hydrogenation; cutalytic **ADDRESS**
- 6. Scandium, Yttrium, Lanthanum & the Lawrence and the sa
 - s. Lauthanide: element with recognist Conductorial.

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