Table of Polyatomic Ions

will replace H from H2O

|  |  |
| --- | --- |
| **Activity Series** | |
| Li | a |
| K |
| Rb |
| Ba |
| Sr |
| Ca |
| N |
| Am | |
| La |  |
| Y |  |
| Mg |  |
| Ce |  |
| Sc |  |
| Pu |  |
| Np | Will replace hydrogen from acids only |
| Th |
| Be |
| U |
| Al |
| Ti |
| V |
| Mn |
| Cr |
| Zn |
| Ga |
| Fe |
| Eu |  |
| Cd |  |
| In |  |
| Co |  |
| Ni |  |
| Sn |  |
| Pb |  |
| **H** |  |
| Sb |  |
| As |  |
| Bi |  |
| Cu |  |
| Nd |  |
| Hg |  |
| Ag |  |
| Pd |  |
| Pt |  |
| Au |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| acetate | CH3COO**-** | fluorite | FO2**-** | perchlorate | ClO4**-** |
|  | or C2H3O2**-** | formate | HCOO**-** | periodate | IO4**-** |
| ammonium | NH4**+** | germanate | GeO32**-** | permanganate | MnO4**-** |
| arsenate | AsO43**-** | glutamate | C5H8NO4**-** | peroxide | O22**-** |
| arsenite | AsO33**-** | hexachloroplatinate | PtCl62**-** | peroxydisulfate | S2O82**-** |
| barbital | C8H11N2O3**-** | hexafluorosilicate | SiF62**-** | phosphate | PO43**-** |
| benzoate | C6H5COO**-** | hydrogen carbonate | HCO3**-** | phthalate | C8H4O42**-** |
| bismuthate | BiO3**-** | or bicarbonate |  | pyrophosphate | P4O74**-** |
| borate | BO33**-** | hydrogen oxalate | HC2O4**-** | selenate | SeO42**-** |
| bromate | BrO3**-** | hydrogen phosphate | HPO42**-** | silicate | SiO32**-** |
| carbonate | CO32**-** | hydrogen phosphite | HPO32**-** | stearate | C17H35COO**-** |
| chlorate | ClO3**-** | hydrogen sulfate | HSO4**-** | sulfate | SO42**-** |
| chlorite | ClO2**-** | or bisulfate |  | sulfite | SO32**-** |
| chromate | CrO42**-** | hydrogen sulfite | HSO3**-** | tartrate | C4H4O62**-** |
| citrate | C6H5O73**-** | or bisulfite |  | tellurate | TeO42**-** |
| cyanamide | HCN**-** | hydronium | H3O**+** | tetraborate | B4O72**-** |
| cyanate | OCN**-** or CNO**-** | hydroxide | OH**-** | thiocyanate | SCN**-** |
| cyanide | CN**-** | hypochlorite | ClO**-** | thiosulfate | S2O32**-** |
| dichromate | Cr2O72**-** | iodate | IO3**-** | tripolyphosphite | P3O 5**-**  10 |
| dihydrogen phosphate | H2PO4**-** | lactate | C3H5O3**-** | tungstate | WO42**-** |
| dihydrogen phosphite | H2PO3**-** | molybdate | MoO42**-** | uranate | UO4**-** |
| ferricyanide | Fe(CN)63**-** | nitrate | NO3**-** | vandate | VO3**-** |
| ferrocyanide | Fe(CN)64 **-** | nitrite | NO2**-** |  |  |
| ferrorcyanate | FeSCN2**+** | oxalate | C2O42**-** |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| H |  | | | | | | | | | | | | | | | | He |
| 2.1 |
| Li | Be | Electronegativity | | | | | | | | | | B | C | N | O | F | Ne |
| 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
| Na | Mg | Al | Si | P | S | Cl | Ar |
| 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.5 | 3.0 |
| K | Ca | Sc | Ti | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge | As | Se | Br | Kr |
| 0.8 | 1.0 | 1.3 | 1.5 | 1.6 | 1.6 | 1.5 | 1.8 | 1.8 | 1.8 | 1.9 | 1.6 | 1.6 | 1.8 | 2.0 | 2.4 | 2.8 |
| Rb | Sr | Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb | Te | I | Xe |
| 0.8 | 1.0 | 1.3 | 1.4 | 1.6 | 1.8 | 1.9 | 2.2 | 2.2 | 2.2 | 1.9 | 1.7 | 1.7 | 1.8 | 1.9 | 2.1 | 2.5 |
| Cs | Ba |  | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | Tl | Pb | Bi | Po | At | Rn |
| 0.7 | 0.9 | 1.3 | 1.5 | 1.7 | 1.9 | 2.2 | 2.2 | 2.2 | 2.4 | 1.9 | 1.8 | 1.8 | 1.9 | 2.0 | 2.2 |
| Fr | Ra | Rf | Db | Sg | Br | Hs | Mt | Uun | Uuu | Uub |  | | | | | |
| 0.7 | 0.9 |
|  | | | | | | | | | | | | | | | | | |
|  | | La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |  |
| 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 |
| Ac | Th | Pa | U | Np | Pu | Am | Cm | Bk | Cf | Es | Fm | Md | No | Lr |
| 1.1 | 1.3 | 1.5 | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |

Chemistry 11 & 12 – L. Farrell

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