Key for Properties of Elements Table

***Use the internet to learn about the reactivity and some physical properties of the following substances.***

***Complete the table below.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Properties to Research*** | ***Silver*** | ***Iron*** | ***Sodium*** | ***Bromine*** |
| ***How Reactive am I?*** *(very, mildly, rarely) –Name two compounds formed with element listed.* | ***Mildly Reactive******AgCl AgBr(chemical formula)*** | ***Very******Iron Oxide******Iron Chloride*** | ***Very******NaCl NaOH******sodium peroxide******sodium sulphate*** | ***Very reactive******bromine dioxide******potassium bromide*** |
| ***Are compounds easily formed with Oxygen?****Yes, No or Sometimes – Give example!* | ***Silver is not reactive with oxygen*** | ***Yes reacts easily with oxygen******-rust – iron oxide*** | ***Yes******Sodium peroxide*** | ***Yes******Bromine dioxide*** |
| ***Electrical conductivity****Poor, Good, Excellent* | ***Excellent*** | ***Poor/good*** | ***good*** | ***Very poor*** |
| ***Density (units)*** | ***10.5 g/cm3*** | ***7.9 g/cm3*** | ***9.71 g/cm3*** | ***3.19 g/cm3*** |
| ***Melting point/Freezing point (°C)*** | ***2212 °C*** | ***1538 °C*** | ***97.8 °C*** | ***-7.2 °C*** |
| ***State at room temperature (25°C)****Solid, Liquid or Gas* | ***Solid*** | ***Solid*** | ***Solid*** | ***liquid*** |