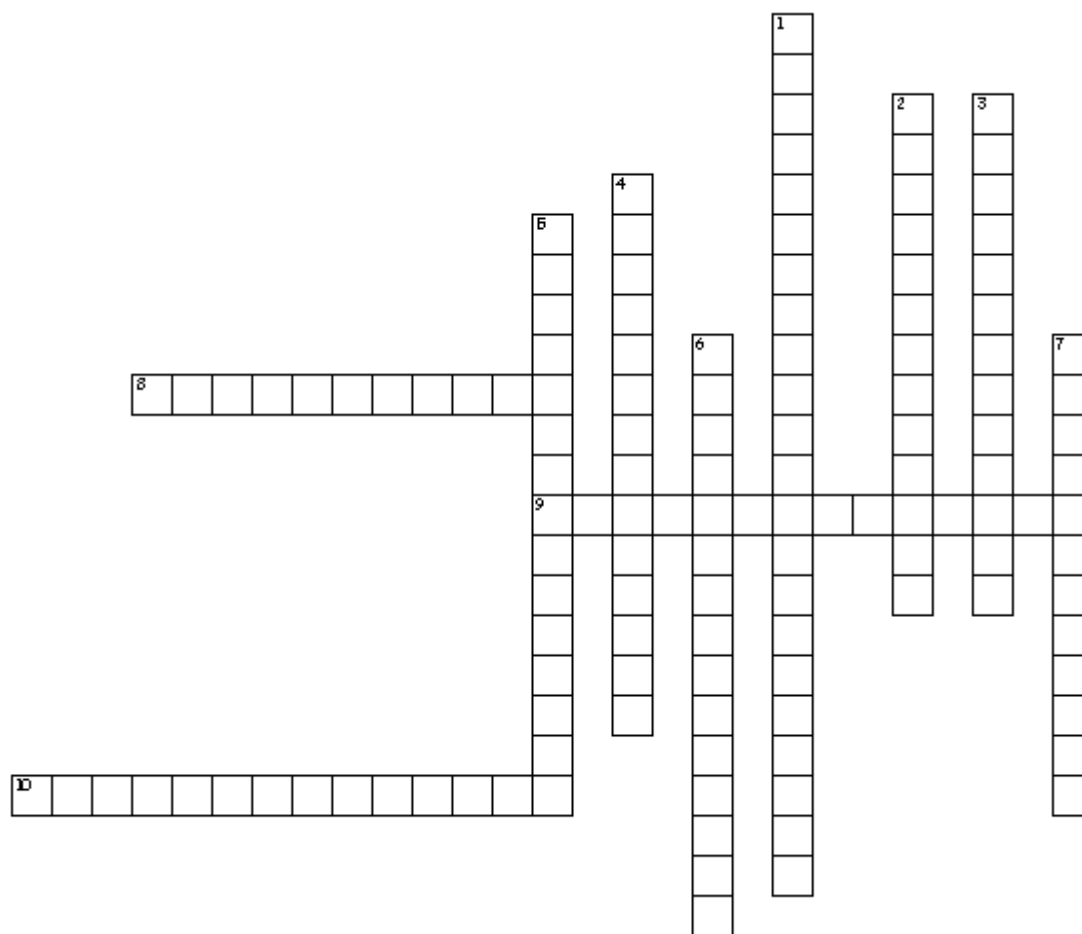


Question 1: Salts-Crossword-1



Across

8. Only water-soluble salt of lead
9. This salt produces nitrous oxide (laughing gas) on heating along with water
10. A salt insoluble in dilute HCl but soluble in aqueous NH_3

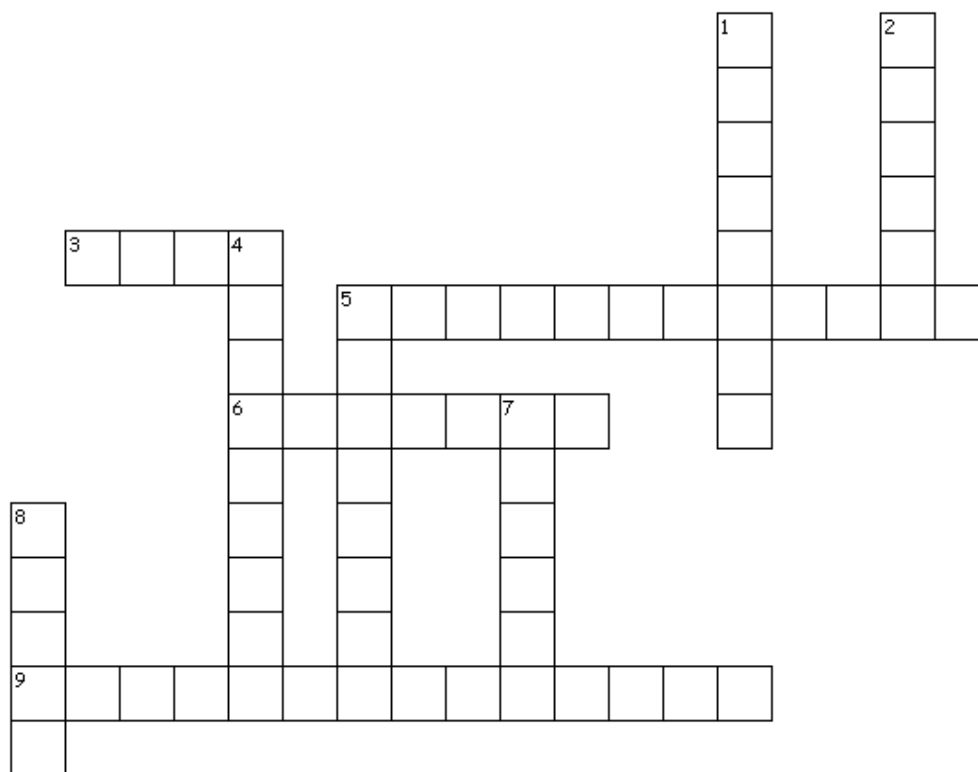
Down

1. The brown ring compound in ring test for nitrates
2. A salt soluble in hot water but insoluble in cold water
3. A solid crystalline salt which produce nitrogen dioxide, and oxygen gas on heating
4. A water-soluble oxide of period four element that is basic
5. The salt is green in colour when heated produces a gas which turn limewater milky and the salt turns black
6. A solid crystalline salt produces nitrogen on heating
7. A yellow colour salt in solution that does not get dissolved in concentrated NH_3

Question 2: Answer the following:

1. Write balanced equations for nitric acid formation during thunderstorm. (3 steps)
2. Name a solution which gives nitrogen dioxide with copper
3. Write a balanced equation for action of heat on ammonium nitrate.
4. Give a reaction between concentrated HNO_3 and copper turning
5. Write a balanced equation between sulphur and hot conc. Nitric acid.
6. Name two metal nitrates which produces only one gas on heating
7. Write balanced equation for action of heat on sodium, potassium and copper nitrate.
8. Write balanced equation for action of heating nitrogen monoxide and oxygen

Question 3: Alloys-Crossword-1



Across

3. Soldering alloy is an alloy of _____ where another metal tin is mixed
5. An alloy of Cu (50%), Zn (30%) and Ni (20%)
6. This is a type of alloy in which base metal is mercury
9. This is an alloy of iron nickel and chromium, used as cutlery,

Down

1. A salt of aluminium mixed with bauxite to reduce melting temperature
2. An alloy that is made by mixing 20% tin with 80% copper
4. An alloy with Al (95%), Cu (4%), Mn (0.4%), and Mg (0.4%), used in aircraft
5. A non-metal, conducts electricity in its solid state
7. Product of two metals, fused together (plural)
8. An alloy made by mixing roughly 60% copper with 40% zinc

Question 4: Answer the following:

1. Give name of a substance which produced a gas which turns limewater milky from HNO_3
2. Why HNO_3 leaves a yellow colour when left standing in an ordinary glass bottle?
3. Give name of a substance that converts Sulphur into sulphuric acid directly.
4. Write balanced equations for preparation of nitric acid from potassium nitrate. (2 steps)
5. Give name of a substance, which produces a brown gas in presence of copper turnings.
6. Name three nitrates that produces coloured residue, on heating. Also state the colour of the residue with the balanced chemical equation for the above three reactions.