

# Chemistry



9th Class

Sindh Board Notes

Chapter # 14

Sulphur And Its Compound



Fill In Blanks

پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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## → SULPHUR & ITS COMPOUND

1. Rhombic sulphur is the most stable crystalline form of sulphur.
2. Monoclinic sulphur has S<sub>8</sub> structure.
3. CS<sub>2</sub> is a good solvent for monoclinic sulphur.
4. The melting point of monoclinic sulphur is 119°C.
5. Pure sulphuric acid on large scale is manufactured by the Contact process.
6. Phosphorous with hot conc. H<sub>2</sub>SO<sub>4</sub> oxidizes to phosphoric acid.
7. Ethane gas evolves when ethanol is dehydrated by hot conc. H<sub>2</sub>SO<sub>4</sub>.
8. In 1787 Lavoiser recognized sulphur as an element.
9. Sulphur is the second member of group VIA of periodic table.
10. Its atomic number is 16 while atomic mass is 32 a mass.
11. Sulphur has 6 electrons in its outermost shell.
12. The existence of an element in two or more different forms in the same physical state is called allotropy.
13. Different forms of the same elements having same chemical properties but different physical properties are called Allotropes.
14. The most stable crystalline form of sulphur at ordinary condition is called rhombic sulphur.
15. Rhombic sulphur is obtained as pale yellow octahedral crystals.

16. Monoclinic sulphur consists of dark yellow transparent **needle** like crystal.
17. The colour of plastic sulphur is **amber**.
18. On standing the monocline crystals become **opaque**, brittle and lemon yellow in colour.
19. The temperature at which both forms rhombic and monoclinic co exist in equilibrium is called as **transition** temperature.
20. The transition temperature of sulphur is **96°C**.
21. Rhomibc sulphur consists of **8** sulphur atoms bound to each other through single covalent bond.
22. Plastic sulphur has **zig zag** arrangements of sulphur atoms.
23. Sulphur is non metal and makes up about **0.1%** of the earth's crust.
24. About 60 -70 % **native** sulphur occurs deep below the earth surface.
25. For the extraction of sulphur ingenious method was discovered by **Herman Frasch**.
26. It is bad conductor of heat and **electricity**.
27. Boiling point of sulphur is about **444°C**.
28. **Flowers** of sulphure are obtained when the vapours of sulphur at its boiling are condensed on a cold surface.
29. The contact process is the most recent process for the preparation of **H<sub>2</sub>SO<sub>4</sub>**.
30. Catalyst used in this process is **vanadium pentaoixde (V<sub>2</sub>O<sub>5</sub>)** or **Pt**.
31. Oleum is **pyrosulphuric acid**.
32. Sulphuric acid obtained by the contact process is about **100%** pure.
33. Pure conc. H<sub>2</sub>SO<sub>4</sub> is often known as **oil of vitriol**.
34. Melting point of H<sub>2</sub>SO<sub>4</sub> is **10.5°C**.

35. Boiling point of  $\text{H}_2\text{SO}_4$  is 338°C.
36. Sulphuric acid is hygroscopic therefore it is used as drying agent.
37. The progress and the propriety of any nation can be estimated in the terms of the amount of sulphuric acid consumed annually.
38. Sulphuric acid is the barometer of industrial and economical progress of a country.
39. Formula of super phosphate is  $\text{Ca}(\text{H}_2\text{PO}_4)_2$ .
40. Formula of ammonium sulphate is  $(\text{NH}_4)_2\text{SO}_4$ .

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