

ATOMS, MOLECULES AND RADICALS

SUBJECT-CHEMISTRY

CHAPTER NO- 4

Molecular formula, the common names and the state of some common
Compounds.

PERIOD-7

CHANGING YOUR TOMORROW



LEARNING OBJECTIVE

Students will be able to

- Know about the Molecular formula of some compounds.
- Get aware of the Molecular formula, the common names and the state of some common Compounds.



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WARM UP QUESTIONS

- Activate prior knowledge by asking students what do they mean by Molecular Formula.
- Guide them to get aware of the Molecular formula, the common names and the state of some common Compounds.



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MOLECULAR FORMULA AND COMMON NAMES OF SOME COMPOUNDS

FORMULA
NaCl
$C_{12}H_{22}O_{11}$
$C_6H_{12}O_6$
NaHCO ₃
Na ₂ CO ₃ ·10H ₂ O
CaCO ₃
SiO ₂
Ca (OH) ₂
NaOH
CuSO ₄
H ₂ O
CH ₃ COOH
HCl
H ₂ SO ₄
HNO ₃
CO ₂
CO
SO ₂
SO ₃
NH ₃
H ₂ S

Common Salt (Sodium Chloride)
Baking Soda (Sodium bicarbonate)
Washing Soda (Sodium carbonate)
Marble & Chalk (Calcium carbonate)
Calcium Hydroxide (slaked lime)
Sodium hydroxide (Caustic Soda)



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Molecular formula, the common names and the state of some common Compounds

NAME OF THE COMPOUNDS	FORMULA	STATE
1. Common Salt (Sodium Chloride)	NaCl	Solid
2. Sugar	$C_{12}H_{22}O_{11}$	Solid
3. Glucose	$C_6H_{12}O_6$	Solid
4. Baking Soda (Sodium bicarbonate)	NaHCO ₃	Solid
5. Washing Soda (Sodium carbonate)	Na ₂ CO ₃ ·10H ₂ O	Solid
6. Marble & Chalk (Calcium carbonate)	CaCO ₃	Solid
7. Sand (Silica)	SiO ₂	Solid
8. Calcium Hydroxide (slaked lime)	Ca (OH) ₂	Solid
9. Sodium hydroxide (Caustic Soda)	NaOH	Solid
10. Copper Sulphate (Blue Vitriol)	CuSO ₄	Solid
11. Water	H ₂ O	Liquid
12. Acetic Acid (Vinegar)	CH ₃ COOH	Liquid



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Molecular formula, the common names and the state of some common Compounds

13. Hydrochloric Acid	HCl	Liquid
14. Sulphuric Acid	H ₂ SO ₄	Liquid
15. Nitric Acid	HNO ₃	Liquid
16. Carbon Dioxide	CO ₂	Gas
17. Carbon Monoxide	CO	Gas
18. Sulphur dioxide	SO ₂	Gas
19. Sulphur trioxide	SO ₃	Gas
20. Ammonia	NH ₃	Gas
21. Hydrogen sulphide	H ₂ S	Gas
22. Nitrogen dioxide	NO ₂	Gas
23. Nitric oxide (nitrogen monoxide)	NO	Gas
24. Nitrous oxide (Laughing Gas)	N ₂ O	Gas



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HOME ASSIGNMENT

- Exercise Q10, Q11, Q14
- All objective questions
- Write the formula of the following compounds
 - a) Hydrogen sulphide
 - b) Calcium Hydroxide
 - c) Caustic soda
 - d) Baking Soda
 - e) Washing Soda
 - f) Calcium carbonate



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THANKING YOU

ODM EDUCATIONAL GROUP



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