IMPORTANT COMPOUNDS AND THEIR FORMULAE

- 1. Active nitrogen \rightarrow Atomic nitrogen
- 2. Alums
- 3. Amatol
- 5. Aqua regia
- 6. Arsine
- 7. Asbestos
- 8. Borane
- 9. Bremstone
- 10. Blue vitriol
- 11. Bleaching \rightarrow Ca(OCl)Cl powder
- 13. Baryta

- \rightarrow MAl(SO₄)₂.12H₂O; (M =

 NH_4^+ , Na^+ , K^+ etc.)

- $\rightarrow 80\% \text{ NH}_4 \text{NO}_3 + 20\%$ T.N.T. (explosive)
- 4. Anhydrone $\rightarrow Mg(ClO_4)_2$
 - \rightarrow conc. 1HNO₃+conc. 3HCl
 - $\rightarrow \text{AsH}_3$
 - \rightarrow CaMg₃(SiO₃)₄
 - \rightarrow Hydrides of Boron
 - \rightarrow S₈
 - \rightarrow CuSO₄.5H₂O
- 12. Baryta water \rightarrow Ba(OH)₂ Solution
 - → BaO



- 14. Baking powder \rightarrow NaHCO₃ or Soda
- 15. Black jack
- 16. Calgon
- 17. Carborundum
- 18. Caliche
- 19. Caustic Soda
- 20. Caustic potash \rightarrow KOH
- 21. Calomel
- 22. Cerussite

- 25. Chinese white \rightarrow ZnO
- 26. Corrosive sublimate
- 27. D.D.T.
- 28. Deuterium
- 29. Dry ice
- 30. Fehling's solution
- 31. Feldspar

- \rightarrow Zinc ore
- $\rightarrow \text{Na}_{2}[\text{Na}_{4}(\text{PO}_{3})_{6}]$
- $\rightarrow \text{Si}\overline{\text{C}}$
 - \rightarrow Natural NaNO₃ containing NaIO₃
 - → NaOH
- - \rightarrow Hg₂Cl₂
 - \rightarrow PbCO₂
- 23. Cementite \rightarrow Fe₃C (iron carbide)
- 24. Chrom alum $\rightarrow K_2 \bar{S}O_4 \cdot Cr_2 (SO_4)_3 \cdot 24H_2O$

 - \rightarrow HgCl₂
 - \rightarrow p-dichloro-diphenyltrichloro-ethene
 - \rightarrow D or $_1H^2$ (Isotope of hydrogen)
 - \rightarrow Solid CO₂
 - \rightarrow A deep blue solution = $CuSO_4.5H_2O + NaOH +$ Na, K-tartrate (used for the test of aldehydes)
 - \rightarrow KAlSi₃O₈



| 32. | Fenton's | \rightarrow | H_2O_2 + few drops of |
|-----|-----------------|---------------|--|
| | reagent | | $FeCl_{3}$ |
| 33. | Freon | | CF_2Cl_2 |
| | | | K_2SO_4 .Fe ₂ (SO ₄) ₃ .24H ₂ O |
| | | | $N_{2}O_{3} + K_{2}O_{3}$ |
| | | | 1 0 1 0 |
| 50. | riula magnesia | ι→ | 12% aqueous slon. of |
| 0.5 | | | $Mg(HCO_3)_2$ |
| | Glauber's salt | | $Na_2SO_4.10H_2O$ |
| | Graphite | | An allotrope of carbon |
| 39. | Green vitriol | \rightarrow | $\rm FeSO_4.7H_2O$ |
| 40. | Gun powder | \rightarrow | 75% KNO ₃ , 12%S, 13% |
| | | | charcoal |
| 41. | Heavy | \rightarrow | D_2 |
| | hydrogen | | 2 |
| 42. | Heavy water | \rightarrow | D ₂ O |
| | Hydrolith | | CaH ₂ |
| | Нуро | | $Na_2S_2O_3.5H_2O$ |
| | | | ZnCl_{2} + ZnO (Zn-oxy |
| 40. | Killed spirit | ~ | chloride) |
| 10 | 77 . | | |
| | Kesserite | | 1 2 |
| 47. | Leuna saltpetre | \rightarrow | Fertilizer $[NH_4NO_3 +$ |
| | | | $(\mathrm{NH}_4)_2 \mathrm{SO}_4]$ |
| 48. | Lime or Quick | \rightarrow | CaO |
| | lime | | |
| 49. | Lead of pencil | \rightarrow | Graphite (C) |
| | _ | | |

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| | | | . |
|-----|-------------------------|---------------|---|
| | | | of Ca(OH) ₂ |
| 51. | Laughing gas | \rightarrow | N ₂ O - |
| 52. | Lunar caustic | \rightarrow | AgNO ₃ |
| 53. | Litharge | | PbO |
| 54. | Lithopone | \rightarrow | A white pigment (|
| | - | | $+ BaSO_{4})$ |
| 55. | Massicot | \rightarrow | PbO |
| 56. | Matte | \rightarrow | $Cu_2S + FeS$ |
| 57. | Magnesia alba | | $2\dot{MgCO_3}$.Mg(OH) ₂ .3 |
| | Magnesia | | MgO |
| | Marsh gas | \rightarrow | Methane (CH ₄) |
| | Marble | | CaCO ₃ |
| 61. | Micro cosmic | | $NaNH_4HPO_4$ (used |
| | salt | | the test of silicates |
| 62. | Milk of | \rightarrow | A paste of Mg(OH) |
| | magnesia | | water |
| 63. | Mohr's salt | \rightarrow | $FeSO_4(NH_4)_2SO_4.6H$ |
| 64. | Muriatic acid | | HCl 4 4 2 4 |
| | | > S | uspension of Ca(OH) ₂ |
| | | | water |
| 66. | Minium | > Pl | b_3O_4 |
| 67. | Nascent \rightarrow | A A | tomic hydrogen |
| | hydrogen | | |
| 68. | Nessler's \rightarrow | A | q. soln. of ${ m K_2HgI}_4$ |
| | reagent | | |
| | | | |

50. Lime water

- \rightarrow A clear aqueous solution $a(OH)_2$
- O_3

 - hite pigment (ZnS (SO_4)

 - S + FeS
 - CO3.Mg(OH)2.3H2O
 - - hane (CH_4)
 - O_3
 - $\mathrm{IH}_4\mathrm{HPO}_4$ (used in test of silicates)
 - iste of $Mg(OH)_2$ in \mathbf{r}
 - $O_4(NH_4)_2SO_4.6H_2O$

| 77. | Philosopher's | \rightarrow | ZN |
|-----|----------------|------------------|---------------|
| | Wool | | |
| 78. | Phosphine | \rightarrow | \mathbf{PH} |
| 79. | Phosgene | \rightarrow | CC |
| 80. | Pig iron | \rightarrow | im |
| 81. | Potas alum | \rightarrow | K_2 |
| 82. | Producer gas | | Αr |
| 83. | Plaster of par | $is \rightarrow$ | Ca |
| 84. | Quartz | \rightarrow | (SiC |
| 85. | Quick silver | \rightarrow | Hg |
| 86. | Quick lime | \rightarrow | Ca |
| 87. | Red lead | \rightarrow | Pb_3 |
| 88. | Refrigerant | \rightarrow | NH |
| 89. | Rochelle Salt | \rightarrow | Sod |
| | | | tart |
| | | | |
| | | | |

69. Nitro chalk

72. Oil of vitriol

Serpents

70. Nitrolim

73. Ozone

74. Oleum

- \rightarrow Fertilizer [NH₄NO₃ $+(NH_4)_2CO_3$]
- \rightarrow CaCN₂
- 71. Nitrophos \rightarrow Ca(H₂PO₄)₂+2Ca(NO₃)₂
 - \rightarrow conc. H₂SO₄
 - $\rightarrow 0_3$

$$\rightarrow$$
 H₂S₂O₇

- 75. Oxygen gas $\rightarrow O_{2}$
- 76. Pharaoh's \rightarrow Hg(CNS)₂
 - ٩O
 - \mathbf{I}_3
 - DCl₂
 - pure form of iron
 - $SO_4.Al_2(SO_4)_3.24H_2O$
 - mixture of $(CO + N_2)$
 - $(SO_4)_2 H_2O$
 - $(0_2)_n$
 - 0
 - O_4
 - I_3, CO_2, CF_2Cl_2 etc.
 - dium potassium trate



| 90. | Rust | \rightarrow | Fe ₂ O ₃ .xH ₂ O |
|------|-----------------|-----------------|---|
| 91. | Sorel's Cement | | 202 |
| 92. | Soda-lime | \rightarrow | NaOH + CaO |
| 93. | Soda ash or | \rightarrow | Na ₂ CO ₃ |
| | Sal soda | | 2 0 |
| 94. | Spathose ore | \rightarrow | FeCO ₃ |
| 95. | Salammoniac | \rightarrow | NH₄Cľ |
| 96. | Slaked lime | \rightarrow | Ca(OH) ₂ |
| 97. | Sal volatile | \rightarrow | $(NH_4)_2 \tilde{CO}_3$ |
| | (smelling salt) | | |
| 98. | Spinel | \rightarrow | $MgAl_2O_4$ |
| 99. | Superphosphat | $e \rightarrow$ | $Ca(H_2PO_4)_2 + 2CaSO_4$ |
| 100. | T.N.T. | \rightarrow | Tri-nitro toluene |
| | | | (explosive) |
| 101. | T.N.B. | \rightarrow | Tri-nitro benzene |
| | | | (more powerful |
| | | | explosive than T.N.T.) |
| 102. | Tincal | \rightarrow | $Na_{2}B_{4}O_{7}.10H_{2}O$ |
| 103. | Talc | \rightarrow | $3MgO.4SiO_2.H_2O$ |
| 104. | Tritium | \rightarrow | T or, H ³ , an isotope of |
| | | | hydrogen |
| 105. | Vermilion | \rightarrow | HgS (red) |
| 106. | Water glass | \rightarrow | Sodium metasilicate |
| | | | (Na_2SiO_3) |
| 107. | Water gas | | $CO + H_2$ |
| | | | - |



- 108. Wrought iron

- 111. Zinc white
- \rightarrow Pure form of iron
- 109. White vitriol \rightarrow ZnSO₄.7H₂O 110. White lead \rightarrow 2PbCO₃.Pb(OH)₂
 - \rightarrow ZnO

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