

IMPORTANT COMPOUNDS AND THEIR FORMULAE

1. Active nitrogen → Atomic nitrogen
2. Alums → $\text{MAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$; ($\text{M} = \text{NH}_4^+, \text{Na}^+, \text{K}^+$ etc.)
3. Amatol → 80% NH_4NO_3 + 20% T.N.T. (explosive)
4. Anhydronite → $\text{Mg}(\text{ClO}_4)_2$
5. Aqua regia → conc. 1HNO_3 + conc. 3HCl
6. Arsine → AsH_3
7. Asbestos → $\text{CaMg}_3(\text{SiO}_3)_4$
8. Borane → Hydrides of Boron
9. Bremstone → S_8
10. Blue vitriol → $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
11. Bleaching powder → $\text{Ca}(\text{OCl})\text{Cl}$
12. Baryta water → $\text{Ba}(\text{OH})_2$ Solution
13. Baryta → BaO

14. Baking powder → NaHCO_3
or Soda
15. Black jack → Zinc ore
16. Calgon → $\text{Na}_2[\text{Na}_4(\text{PO}_3)_6]$
17. Carborundum → SiC
18. Caliche → Natural NaNO_3
containing NaIO_3
19. Caustic Soda → NaOH
20. Caustic potash → KOH
21. Calomel → Hg_2Cl_2
22. Cerussite → PbCO_3
23. Cementite → Fe_3C (iron carbide)
24. Chrom alum → $\text{K}_2\text{SO}_4 \cdot \text{Cr}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$
25. Chinese white → ZnO
26. Corrosive
sublimate → HgCl_2
27. D.D.T. → p-dichloro-diphenyl-
trichloro-ethene
28. Deuterium → D or ${}_1\text{H}^2$ (Isotope of
hydrogen)
29. Dry ice → Solid CO_2
30. Fehling's
solution → A deep blue solution =
 $\text{CuSO}_4 \cdot 5\text{H}_2\text{O} + \text{NaOH} +$
 Na, K-tartrate (used
for the test of aldehydes)
31. Feldspar → KAlSi_3O_8

32. Fenton's reagent → H_2O_2 + few drops of FeCl_3
33. Freon → CF_2Cl_2
34. Ferric alum → $\text{K}_2\text{SO}_4 \cdot \text{Fe}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$
35. Fusion mixture → $\text{Na}_2\text{CO}_3 + \text{K}_2\text{CO}_3$
36. Fluid magnesia → 12% aqueous soln. of $\text{Mg}(\text{HCO}_3)_2$
37. Glauber's salt → $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$
38. Graphite → An allotrope of carbon
39. Green vitriol → $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
40. Gun powder → 75% KNO_3 , 12% S, 13% charcoal
41. Heavy hydrogen → D_2
42. Heavy water → D_2O
43. Hydrolith → CaH_2
44. Hypo → $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
45. Killed spirit → $\text{ZnCl}_2 + \text{ZnO}$ (Zn-oxy chloride)
46. Kesserite → $\text{MgSO}_4 \cdot \text{H}_2\text{O}$
47. Leuna saltpetre → Fertilizer $[\text{NH}_4\text{NO}_3 + (\text{NH}_4)_2\text{SO}_4]$
48. Lime or Quick lime → CaO
49. Lead of pencil → Graphite (C)

50. Lime water → A clear aqueous solution of $\text{Ca}(\text{OH})_2$
51. Laughing gas → N_2O
52. Lunar caustic → AgNO_3
53. Litharge → PbO
54. Lithopone → A white pigment ($\text{ZnS} + \text{BaSO}_4$)
55. Massicot → PbO
56. Matte → $\text{Cu}_2\text{S} + \text{FeS}$
57. Magnesia alba → $2\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$
58. Magnesia → MgO
59. Marsh gas → Methane (CH_4)
60. Marble → CaCO_3
61. Micro cosmic salt → $\text{NaNH}_4\text{HPO}_4$ (used in the test of silicates)
62. Milk of magnesia → A paste of $\text{Mg}(\text{OH})_2$ in water
63. Mohr's salt → $\text{FeSO}_4(\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$
64. Muriatic acid → HCl
65. Milk of lime → Suspension of $\text{Ca}(\text{OH})_2$ in water
66. Minium → Pb_3O_4
67. Nascent hydrogen → Atomic hydrogen
68. Nessler's reagent → Aq. soln. of K_2HgI_4

69. Nitro chalk → Fertilizer $[\text{NH}_4\text{NO}_3 + (\text{NH}_4)_2\text{CO}_3]$
 70. Nitrolim → CaCN_2
 71. Nitrophos → $\text{Ca}(\text{H}_2\text{PO}_4)_2 + 2\text{Ca}(\text{NO}_3)_2$
 72. Oil of vitriol → conc. H_2SO_4
 73. Ozone → O_3
 74. Oleum → $\text{H}_2\text{S}_2\text{O}_7$
 75. Oxygen gas → O_2
 76. Pharaoh's Serpents → $\text{Hg}(\text{CNS})_2$
 77. Philosopher's Wool → ZNO
 78. Phosphine → PH_3
 79. Phosgene → COCl_2
 80. Pig iron → impure form of iron
 81. Potas alum → $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$
 82. Producer gas → A mixture of $(\text{CO} + \text{N}_2)$
 83. Plaster of paris → $\text{Ca}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$
 84. Quartz → $(\text{SiO}_2)_n$
 85. Quick silver → Hg
 86. Quick lime → CaO
 87. Red lead → Pb_3O_4
 88. Refrigerant → $\text{NH}_3, \text{CO}_2, \text{CF}_2\text{Cl}_2$ etc.
 89. Rochelle Salt → Sodium potassium tartrate

90. Rust $\rightarrow \text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$
91. Sorel's Cement $\rightarrow \text{Mg}(\text{OH})\text{Cl}$
92. Soda-lime $\rightarrow \text{NaOH} + \text{CaO}$
93. Soda ash or
Sal soda $\rightarrow \text{Na}_2\text{CO}_3$
94. Spathose ore $\rightarrow \text{FeCO}_3$
95. Salammoniac $\rightarrow \text{NH}_4\text{Cl}$
96. Slaked lime $\rightarrow \text{Ca}(\text{OH})_2$
97. Sal volatile $\rightarrow (\text{NH}_4)_2\text{CO}_3$
(smelling salt)
98. Spinel $\rightarrow \text{MgAl}_2\text{O}_4$
99. Superphosphate $\rightarrow \text{Ca}(\text{H}_2\text{PO}_4)_2 + 2\text{CaSO}_4$
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 $\rightarrow \text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
103. Talc $\rightarrow 3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$
104. Tritium $\rightarrow \text{T}$ or, H^3 , an isotope of hydrogen
105. Vermilion $\rightarrow \text{HgS}$ (red)
106. Water glass \rightarrow Sodium metasilicate
 $(\text{Na}_2\text{SiO}_3)$
107. Water gas $\rightarrow \text{CO} + \text{H}_2$

108. Wrought iron → Pure form of iron
109. White vitriol → $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$
110. White lead → $2\text{PbCO}_3 \cdot \text{Pb}(\text{OH})_2$
111. Zinc white → ZnO
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