

Section 3 Activity Series of the Elements

Chapter 8

Activity Series of the Elements

Activity of Halogens

F₂

Cl₂

Br₂

I₂

Activity of Metals

Li react with cold H₂O and acids, replacing hydrogen; react with oxygen, forming oxides

Rb

K

Ba

Sr

Ca

Na

Mg

Al

Mn

Zn

Cr

Fe

Cd

react with steam (but not cold water) and acids; replacing hydrogen; react with oxygen, forming oxides

Co

Ni

Sn

Pb

H₂

Sb

Bi

Cu

Hg

Ag

Pt

Au

do not react with water; react with acids, replacing hydrogen; react with oxygen, forming oxides

react with oxygen, forming oxides

fairly unreactive, forming oxides only indirectly

Water Vapor Pressure Table			
Temperature (°C)	Pressure (mmHg)	Temperature (°C)	Pressure (mmHg)
0.0	4.6	19.5	17.0
5.0	6.5	20.0	17.5
10.0	9.2	20.5	18.1
12.5	10.9	21.0	18.6
15.0	12.8	21.5	19.2
15.5	13.2	22.0	19.8
16.0	13.6	22.5	20.4
16.5	14.1	23.0	21.1
17.0	14.5	23.5	21.7
17.5	15.0	24.0	22.4
18.0	15.5	24.5	23.1
18.5	16.0	25.0	23.8
19.0	16.5	26.0	25.2
27.0	26.7	27.0	31.8
28.0	28.3	28.0	30.0
29.0	30.0	29.0	31.8
30.0	31.8	30.0	42.2
35.0	42.2	35.0	55.3
40.0	55.3	40.0	92.5
50.0	92.5	50.0	149.4
60.0	149.4	60.0	233.7
70.0	233.7	70.0	355.1
80.0	355.1	80.0	525.8
90.0	525.8	90.0	633.9
95.0	633.9	95.0	760.0
100.0	760.0	100.0	