

TABLES OF SIMPLE AFFINITY.

OXYGEN.	Tellurium	Benzoic	LIME.
Carbon	Platinum	Sulphurous	<i>Acids :</i>
Manganese	Mercury	Acetic	Oxalic
Zinc	Silver	Mucic	Sulphuric
Iron	Gold.	Boracic	Tartaric
Tin		Nitrous	Succinic
Antimony	CARBON.	Carbonic	Phosphoric
Hydrogen	Oxygen	Prussic	Mucic
Phosphorus	Iron	Oil	Nitric
Sulphur	Hydrogen.	Water	Muriatic
Arsenic		Sulphur	Suberic
Nitrogen	NITROGEN.		Fluoric
Nickel	Oxygen	BARYTES.	Arsenic
Cobalt	Sulphur ?	<i>Acids :</i>	Lactic
Copper	Phosphorus	Sulphuric	Citric
Bismuth	Hydrogen.	Oxalic	Malic
Caloric ?		Succinic	Benzoic
Mercury	HYDROGEN.	Fluoric	Acetic
Silver	Chlorine	Phosphoric	Boracic
Arsenous acid	Oxygen	Mucic	Sulphurous
Nitric oxide	Iodine	Nitric	Nitrous
Gold	Sulphur	Muriatic	Carbonic
Platinum	Carbon	Suberic	Prussic
Carbonic oxide	Phosphorus	Citric	Sulphur
Muriatic acid	Nitrogen	Tartaric	Phosphorus
White oxide of		Arsenic	Water
manganese	SULPHUR.	Lactic	Fixed oil.
White oxide of	Phosphorus ?	Benzoic	
lead.	Potass	Acetic	MAGNESIA.
	Soda	Boracic	<i>Acids :</i>
OXYGEN.	Iron	Sulphurous	Oxalic
[Vauquelin's table	Copper	Nitrous	Phosphoric
of the affinity of	Tin	Carbonic	Sulphuric
the metals of oxy-	Lead	Prussic	Fluoric
gen, according to	Silver	Sulphur	Arsenic
the difficulty with	Bismuth	Phosphorus	Mucic
which their ox-	Antimony	Water	Succinic
ides are decom-	Mercury	Fixed oil.	Nitric
posed by heat.]	Arsenic		Muriatic
Titanium	Molybdenum.	STRONTIAN.	Tartaric
Manganese		<i>Acids :</i>	Citric
Zinc	POTASS, SODA, &	Sulphuric	Malic ?
Iron	AMMONIA.	Phosphoric	Lactic
Tin	<i>Acids :</i>	Oxalic	Benzoic
Uranium	Sulphuric	Tartaric	Acetic
Molybdenum	Nitric	Fluoric	Boracic
Tungsten	Muriatic	Nitric	Sulphurous
Cobalt	Phosphoric	Muriatic	Nitrous
Antimony	Fluoric	Succinic	Carbonic
Nickel	Oxalic	Acetic	Prussic
Arsenic	Tartaric	Arsenic	Sulphur.
Chromium	Arsenic	Boracic	
Bismuth	Succinic	Carbonic	
Lead	Citric	Water.	
Copper	Lactic		

ALUMINA.

Acids :

Sulphuric
Nitric
Muriatic
Oxalic
Arsenic
Fluoric
Tartaric
Succinic
Mucic
Citric
Phosphoric
Lactic
Benzoic
Acetic
Boracic
Sulphurous
Nitrous
Carbonic
Prussic

SALICA.

Acid :

Fluoric
Potass.

OXIDE OF PLATINUM.

OXIDE OF GOLD.

[Omitting for the gold the oxalic, succinic, and carbonic, and adding sulphuretted hydrogen, after ammonia.]

Acids :

Gallic
Muriatic
Nitric
Sulphuric
Arsenic
Fluoric
Tartaric
Phosphoric
Oxalic
Citric
Acetic
Succinic
Prussic
Carbonic
Ammonia.

OXIDE OF SILVER

Acids :

Gallic
Muriatic

Oxalic

Sulphuric

Mucic

Phosphoric

Sulphurous

Nitric

Arsenic

Fluoric

Tartaric

Citric

Lactic

Succinic

Acetic

Prussic

Carbonic

Ammonia.

OXIDE OF MERCURY.

Acids :

Gallic
Muriatic
Oxalic
Succinic
Arsenic
Phosphoric
Sulphuric
Mucic
Tartaric
Citric
Malic
Sulphurous
Nitric
Fluoric
Acetic
Benzoic
Boracic
Prussic
Carbonic.

OXIDE OF LEAD.

Acids :

Gallic
Sulphuric
Mucic
Oxalic
Arsenic
Tartaric
Phosphoric
Muriatic
Sulphurous
Suberic
Nitric
Fluoric
Citric
Malic
Succinic

Lactic

Acetic

Benzoic

Boracic

Prussic

Carbonic

Fixed oils

Ammonia.

OXIDE OF COPPER.

Acids :

Gallic
Oxalic
Tartaric
Muriatic
Sulphuric
Mucic
Nitric
Arsenic
Phosphoric
Succinic
Fluoric
Citric
Lactic
Acetic
Boracic
Prussic
Carbonic
Fixed Alkalies
Ammonia
Fixed oils.

OXIDE OF ARSENIC.

Acids :

Gallic
Muriatic
Oxalic
Sulphuric
Nitric
Tartaric
Phosphoric
Fluoric
Succinic
Citric
Acetic
Prussic
Fixed alkalies
Ammonia
Fixed oils
Water.

OXIDE OF IRON.

Acids :

Gallic
Oxalic

Tartaric

Camphoric

Sulphuric

Mucic

Muriatic

Nitric

Phosphoric

Arsenic

Fluoric

Succinic

Citric

Lactic

Acetic

Boracic

Prussic

Carbonic.

OXIDE OF TIN.

[Bergman places the tartaric before the muriatic.]

Acids :

Gallic
Muriatic
Sulphuric
Oxalic
Tartaric
Arsenic
Phosphoric
Nitric
Succinic
Fluoric
Mucic
Citric
Lactic
Acetic
Boracic
Prussic
Ammonia.

OXIDE OF ZINC.

Acids :

Gallic
Oxalic
Sulphuric
Muriatic
Mucic
Nitric
Tartaric
Phosphoric
Citric
Succinic
Fluoric
Arsenic
Lactic
Acetic
Boracic

Prussic
Carbonic
Fixed alkalies
Ammonia.

OXIDE OF ANTI-MONY.

Acids:

Gallic
Muriatic
Benzoic
Oxalic
Sulphuric
Nitric
Tartaric
Mucic
Phosphoric
Citric
Succinic
Fluoric
Arsenic
Lactic
Acetic
Boracic
Prussic
Fixed alkalies
Ammonia.

SULPHURIC ACID PRUSSIC.

[With the omission of all after ammonia]

Baryta
Strontia
Potass
Soda
Lime
Magnesia
Ammonia
Glucina
Gadolina
Alumina
Zirconia
Metallic oxides.

SULPHUROUS ACID. SUCCINIC.

[Ammonia should come before magnesia and strontia; glucina and zirconia should be omitted.]

Baryta

Lime
Potass
Soda
Strontia
Magnesia
Ammonia
Glucina
Alumina
Zirconia
Metallic oxides.

PHOSPHORIC ACID.

CARBONIC.

[Magnesia should stand above ammonia, and alumina and silica should be omitted.]

Baryta
Strontia
Lime
Potass
Soda
Ammonia
Magnesia
Glucina
Alumina
Zirconia
Metallic oxides
Silica.

PHOSPHOROUS ACID.

[Ammonia should stand above magnesia.]

Lime
Baryta
Strontia
Potass
Soda
Ammonia
Glucina
Alumina
Zirconia
Metallic oxides.

NITRIC ACID.

MURIATIC.

[Silica should be omitted, and instead of it, water and alcohol be inserted.]

Baryta
Potass
Soda
Strontia
Lime
Magnesia
Ammonia
Glucina
Alumina
Zirconia
Metallic oxides.

FLUORIC ACID.

BORACIC.

[Except Silica.]

ARSENIC.

[With the omission of strontia, metallic oxides, glucina, and zirconia.]

TUNGSTIC.

Lime
Baryta
Strontia
Magnesia
Potass
Soda
Ammonia
Glucina
Alumina
Zirconia
Silica

ACETIC ACID. LACTIC, SUBERIC

Baryta
Potass
Soda
Strontia
Lime
Ammonia
Magnesia
Metallic oxides
Glucina
Alumina
Zirconia.

OXALIC ACID. TARTARIC. CITRIC.

[Zirconia after alumina.]

Lime
Baryta
Strontia
Magnesia

Potass
Soda
Ammonia
Alumina
Metallic oxides
Water
Alcohol.

BENZOIC ACID.
White oxide of arsenic

Potass
Soda
Ammonia
Baryta
Lime
Magnesia
Alumina

CAMPHORIC ACID

Lime
Potass
Soda
Baryta
Ammonia
Alumina
Magnesia.

FIXED OILS.

Lime
Baryta
Potass
Soda
Magnesia
Oxide of mercury
Other metallic oxides
Alumina.

ALCOHOL.

Water
Ether
Volatile oil
Alkaline sulphurets.

SULPHURETTED HYDROGEN.

Baryta
Potass
Soda
Lime
Ammonia
Magnesia
Zirconia.