Solubility Product Constants

Ag_3AsO_4	1.03E-22
$AlPO_4$	9.84E-21
$Be(OH)_2$	6.92E-22
$Ca_3(PO_4)_2$	2.07E-33
$Cd_3(AsO_4)_2$	2.2E-33
$Cd_3(PO_4)_2$	2.53E-33
$Co_3(AsO_4)_2$	6.8E-29
$Co_3(PO_4)_2$	2.05E-35
$Cu_3(AsO_4)_2$	7.95E-36
$Cu_3(PO_4)_2$	1.4E-37
$Eu(OH)_3$	9.38E-27
$Fe(OH)_3$	2.79E-39
$Ga(OH)_3$	7.28E-36
Hg_2Br_2	6.4E-23
Hg_2I_2	5.2E-29

HgI_2	2.9E-29
$Mg_3(PO_4)_2$	1.04E-24
$Nd_2(CO_3)_3$	1.08E-33
$Ni_3(PO_4)_2$	4.74E-32
$Pd(SCN)_2$	4.39E-23
$Pr(OH)_3$	3.39E-24
$Sc(OH)_3$	2.22E-31
ScF_3	5.81E-24
$Sn(OH)_2$	5.45E-27
$Tl(OH)_3$	1.68E-44
$Y(OH)_3$	1E-22
$Y_2(CO_3)_3$	1.03E-31
YF_3	8.62E-21
$Zn_3(AsO_4)_2$	2.8E-28
ZnSe	3.6E-26

Lide, David R. *CRC Handbook, 83rd ed.*; CRC Press: Boca Raton, Florida, 2002; pp 8:119-8:122..

Acid-Base Indicators

Indicator name	pH range	Color change
Alizarin yellow R	10.1 – 12.0	yellow – red
Bromothymol blue	6.0 – 7.6	yellow – blue
Clayton yellow	12.2 – 13.2	yellow – amber
Congo red	3.0 – 5.0	bue – red
Cresol red	7.0 – 8.8	yellow – red
Crystal violet	0.0 – 1.8	yellow – blue
Litmus	5.5 – 8.2	red – blue
Malachite green	0.2 – 1.8	yellow – blue/green
Methyl violet	0.0 – 1.6	yellow – blue
Methyl orange	3.2 – 4.4	red – yellow
Methyl red	4.8 – 6.0	red – yellow
Neutral red	6.8 – 8.0	red – amber
Phenolphthalein	8.2 – 10.0	colorless – pink
Quinaldine red	1.4 – 3.2	colorless – red
Resorcin blue	4.4 – 6.2	red - blue
Thymol blue	8.0 – 9.6	yellow – blue

Lide, David R. *CRC Handbook, 83rd ed.*; CRC Press: Boca Raton, Florida, 2002; pp 8–16 - 8–18.