

Solubility Product Constants

Ag ₃ AsO 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 ₂ Br ₂	6.4E-23
Hg ₂ I 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

<u>Indicator name</u>	<u>pH range</u>	<u>Color change</u>
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	blue – 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.