

# Solubility Table

W – soluble in water

I – insoluble in water

d – decomposes in water

w – slightly soluble in water/soluble in acids

A – insoluble in water/soluble in acids

a – insoluble in water/slightly soluble in acids

	acetate	bromide	carbonate	chloride	cyanide	fluoride	hydroxide	iodide	oxalate	phosphate	sulfate	sulfide
aluminum	W	W	---	W	---	W	A	W	A	A	W	d
barium	W	W	w	W	W	w	W	W	w	A	a	d
cadmium	W	W	A	W	W	W	A	W	w	A	W	A
calcium	W	W	w	W	W	w	W	W	A	w	w	w
cobalt (II)	W	W	A	W	A	W	A	W	A	A	W	A
copper (II)	W	W	---	W	A	w	A	d	A	A	W	A
hydrogen	W	W	d	W	W	W	---	W	W	W	W	W
iron (II)	W	W	w	W	A	w	A	W	A	A	W	A
iron (III)	---	W	---	W	---	w	A	W	W	w	w	d
lead (II)	W	W	A	W	w	w	w	w	A	A	w	A
magnesium	W	W	w	W	W	w	A	W	w	w	W	d
manganese (II)	W	W	w	W	---	A	A	W	w	w	W	A
mercury (I)	w	A	A	a	A	d	---	A	a	A	w	I
mercury (II)	W	W	---	W	W	d	A	w	A	A	d	I
nickel (II)	W	W	w	W	a	w	w	W	A	A	W	A
silver	w	a	A	a	a	W	---	I	a	A	w	A
tin (II)	d	W	---	W	---	W	A	w	A	A	W	A
strontium	W	W	w	W	W	w	W	W	w	A	w	W
zinc	W	W	w	W	A	w	A	W	A	A	W	A

Lide, David R. *CRC Handbook*, 83<sup>rd</sup> ed.; CRC Press: Boca Raton, Florida, 2004; p 8-124 – 8-126.