

GENERAL SOLUBILITY CHART

of selected salts

By Mr. D. Scott, CHS

KEY	
S	= Soluble
ss	= Slightly Soluble
I	= Insoluble
DR	= Decomposes/Reacts in H ₂ O
?	= No info avail or does not exist

Conditions: Aqueous, 25 °C

CATIONS	ANIONS													
	Acetate	Bromide	Carbonate	Chloride	Chromate	Fluoride	Hydroxide	Iodide	Nitrate	Oxide	Phosphate	Silicate	Sulfate	Sulfide
Aluminum	S	S	?	S	?	ss	I	S	S	I	I	I	S	DR
Ammonium	S	S	S	S	S	S	S	S	S	?	S	?	S	S
Barium	S	S	I	S	I	ss	S	S	S	DR	I	S	I	DR
Calcium	S	S	I	S	S	I	ss	S	S	DR	I	ss	ss	DR
Chromium (III)	S	S	I	S	I	I	I	S	S	I	I	?	S	DR
Cobalt (II)	S	S	I	S	I	S	I	S	S	I	I	I	S	I
Copper (II)	S	S	I	S	I	S	I	DR	S	I	I	I	S	I
Iron (II)	S	S	I	S	I	ss	I	S	S	I	I	I	S	I
Iron (III)	S	S	?	S	I	ss	I	S	S	I	I	I	ss	DR
Lead (II)	S	ss	I	ss	I	I	I	ss	S	I	I	I	I	I
Lithium	S	S	ss	S	S	ss	S	S	S	DR	I	I	S	S
Magnesium	S	S	I	S	S	I	ss	S	S	I	I	I	S	DR
Manganese (II)	DR	S	ss	S	I	S	ss	S	S	I	ss	I	S	ss
Manganese (III)	?	?	?	DR	I	DR	I	?	?	I	ss	I	DR	I
Mercury (I)	ss	I	I	I	I	DR	?	I	S	I	I	?	ss	I
Mercury(II)	S	ss	I	S	DR	DR	I	I	S	I	I	?	DR	I
Nickel (II)	S	S	I	S	I	S	I	S	S	I	I	?	S	I
Potassium	S	S	S	S	I	S	S	S	S	DR	S	S	S	S
Rubidium	S	S	S	S	S	S	S	S	S	DR	?	?	S	S
Silver	ss	I	I	I	I	S	?	I	S	I	I	?	ss	I
Sodium	S	S	S	S	S	S	S	S	S	DR	S	S	S	S
Strontium	S	S	ss	S	I	I	ss	S	S	DR	I	I	I	I
Tin (II)	?	S	?	S	I	S	I	S	DR	I	I	?	S	I
Tin (IV)	S	S	?	?	S	S	ss	S	DR	I	?	?	S	I
Zinc	S	S	I	S	I	S	I	S	S	I	I	I	S	I