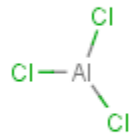
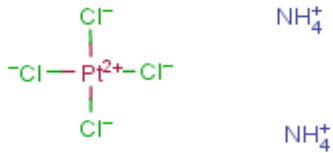
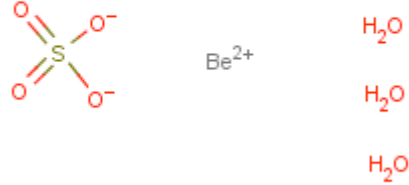



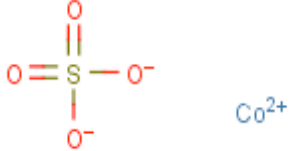

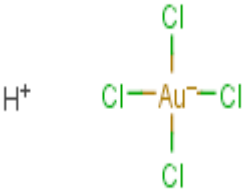
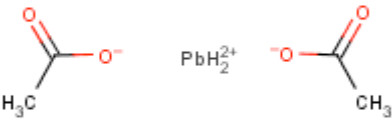
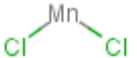
## **APPENDIX C1**

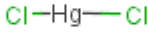
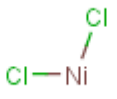
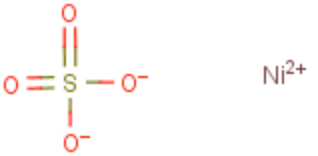
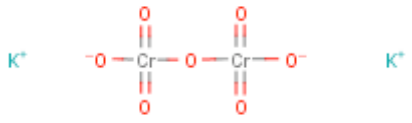
### **Physico-Chemical Properties and Chemical Classes of Metals Analyzed in the Applicability Domain of the LLNA**

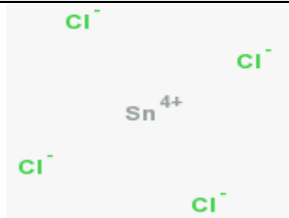
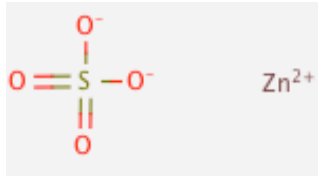
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## Physico-Chemical Properties – Metals (Sorted Alphabetically)

Substance Name	Synonyms	CASRN	Molecular Weight (g/mol)	Log Kow <sup>1</sup>	Physical Form	Chemical Class <sup>2</sup>	Structure <sup>3</sup>
Aluminum chloride	Aluminum chloride, anhydrous	7446-70-0	NA	NA	Solid	Inorganic Chemicals, Aluminum Compounds; Inorganic Chemicals, Chlorine Compounds	
<i>Ammonium tetrachloroplatinate</i> <sup>5</sup>	<i>Ammonium platinum chloride, Ammonium chloroplatinate</i>	13820-41-2	372.97	0.47	Solid	<i>Inorganic Chemicals, Platinum Compounds</i>	
<i>Beryllium sulfate</i>	<i>Beryllium sulfate tetrahydrate</i>	7787-56-6	177.14	NA	Solid	<i>Inorganic Chemicals; Metals; Salts</i>	
<i>Cobalt chloride</i>	<i>Cobaltous chloride</i>	7646-79-9	129.84	0.85	Solid	<i>Inorganic Chemicals; Metals; Salts</i>	
Cobalt (II) salts	NA	NA	NA	NA	Solid	Inorganic Chemicals; Metals; Salts	NA

Substance Name	Synonyms	CASRN	Molecular Weight (g/mol)	Log Kow <sup>1</sup>	Physical Form	Chemical Class <sup>2</sup>	Structure <sup>3</sup>
Cobalt sulfate	Cobaltous sulfate	10124-43-3	154.99	0.63	Solid	Inorganic Chemicals; Metals; Salts	
<i>Copper chloride</i>	<i>Cuprous chloride</i>	<i>7758-89-6</i>	<i>98.99</i>	<i>-0.26</i>	<i>NA</i>	<i>Inorganic Chemicals; Metals; Salts</i>	
<i>Gold chloride</i>	<i>Gold tetrachloride</i>	<i>16903-35-8</i>	<i>339.79</i>	<i>0.16</i>	<i>Solid</i>	<i>Inorganic Chemicals, Gold Compounds; Salts</i>	
<i>Lead acetate</i>	<i>Acetic acid, lead salt</i>	<i>15347-57-6</i>	<i>325.29</i>	<i>-0.08</i>	<i>Solid</i>	<i>Inorganic Chemicals; Metals; Salts</i>	
Manganese chloride	Manganese chloride, anhydrous	7773-01-5	125.84	0.85	Solid	Inorganic Chemicals, Manganese Compounds; Salts	

Substance Name	Synonyms	CASRN	Molecular Weight (g/mol)	Log Kow <sup>1</sup>	Physical Form	Chemical Class <sup>2</sup>	Structure <sup>3</sup>
<i>Mercuric chloride</i>	<i>Mercuric (II) chloride</i>	7487-94-7	271.5	0.15	Solid	<i>Inorganic Chemicals, Mercury Compounds, Salts</i>	
<i>Nickel chloride</i>	<i>Nickelous chloride</i>	7718-54-9	129.6	0.05	Solid	<i>Inorganic Chemicals; Metals; Salts</i>	
Nickel (II) salts	NA	NA	NA	NA	Solid	Inorganic Chemicals; Metals; Salts	NA
<i>Nickel sulfate</i>	<i>Nickel (II) sulfate</i>	7786-81-4	154.76	-0.17	Solid	<i>Inorganic Chemicals; Metals; Salts</i>	
<i>Potassium dichromate</i>	<i>PDC</i>	7778-50-9	294.18	-2.24	Solid	<i>Inorganic Chemicals, Chromium Compounds; Inorganic Chemicals, Potassium Compounds</i>	

Substance Name	Synonyms	CASRN	Molecular Weight (g/mol)	Log Kow <sup>1</sup>	Physical Form	Chemical Class <sup>2</sup>	Structure <sup>3</sup>
Tin chloride	NA	1344-13-14	260.52	NA	Solid	Inorganic Chemicals, Tin Compounds; Salts	
<i>Zinc sulfate</i>	<i>Sulfuric acid, zinc salt; Zinc sulphate</i>	<i>7733-02-0</i>	<i>NA</i>	<i>NA</i>	<i>Solid</i>	Inorganic Chemicals, Zinc Compounds; Salts	

Bold, italicized text represent the 11 metals reported in the original LLNA Evaluation Report (ICCVAM 1999).

Abbreviations: CASRN=Chemical Abstract Services Registry Number; g/mol=Grams per mole; Kow=Octanol-water partition coefficient; NA=Not available.

<sup>1</sup>K<sub>ow</sub> represents the octanol-water partition coefficient (expressed on log scale) obtained from the website: [http://www.syrres.com/esc/est\\_kowdemo.htm](http://www.syrres.com/esc/est_kowdemo.htm).

<sup>2</sup>Chemical classifications based on the Medical Subject Headings classification for chemicals and drugs, as developed by the National Library of Medicine at: <http://www.nlm.nih.gov/mesh/meshhome.html>.

<sup>3</sup>Chemical structures, based on CASRN, were obtained from ChemID available at: <http://chem.sis.nlm.nih.gov/chemidplus/chemidheavy.jsp>.