

GERMANIUM: Approximately 20% of the following (mainly oxides and oxide anions with a spectral range of 4000 to 550  $\text{cm}^{-1}$ ) were run on a Germanium ATR crystal with a 45 degree angle of incidence. The remaining 80% (with a spectral range of 4000 to 600  $\text{cm}^{-1}$ ) were run on a Germanium ATR crystal with a 43 degree angle of incidence.

(2-Aminophenyl)boronic acid pinacol ester hydrochloride, 91171-55-8  
12-Tungstosilicic acid,  $\text{H}_4\text{O}_4\text{SiW}_{12}\text{O}_{42}$ , 12027-43-9  
1-Heptenyl boronic acid,  $\text{C}_7\text{H}_{15}\text{BO}_2$   
2,3-Difluorophenylboronic acid,  $\text{C}_6\text{H}_5\text{BF}_2\text{O}_2$ , 121219-16-7  
2,4,6-Trimethylphenylboronic acid,  $\text{C}_9\text{H}_{13}\text{BO}_2$ , 5980-97-2  
2,4-Difluorophenylboronic acid,  $\text{C}_6\text{H}_5\text{BF}_2\text{O}_2$ , 144025-03-6  
2,4-Dimethoxy pyrimidine-5-boronic acid,  $\text{C}_6\text{H}_9\text{BN}_2\text{O}_4$ , 89641-18-9  
2,5-Dimethoxyphenylboronic acid,  $\text{C}_8\text{H}_{11}\text{BO}_4$ , 107099-99-0  
2,6-Dichlorophenylboronic acid,  $\text{C}_6\text{H}_5\text{BCl}_2\text{O}_2$ , 73852-17-2  
2-Bromomethylphenylboronic acid,  $\text{C}_7\text{H}_8\text{BBrO}_2$ , 91983-14-1  
2-Formylphenylboronic acid,  $\text{HCOC}_6\text{H}_4\text{B}(\text{OH})_2$ , 40138-16-7  
2-Hydroxyphenylboronic acid,  $\text{C}_6\text{H}_7\text{BO}_3$ , 89466-08-0  
2-Nitrophenylboronic acid,  $\text{C}_6\text{H}_6\text{BNO}_4$ , 5570-19-4  
3,4-Methylenedioxyphenylboronic acid,  $\text{C}_7\text{H}_7\text{BO}_4$ , 94839-07-3  
3-Acetylphenylboronic acid,  $\text{C}_8\text{H}_9\text{BO}_3$ , 204841-19-0  
3-Carboxy-5-nitrophenylboronic acid,  $\text{C}_7\text{H}_6\text{BNO}_6$ , 101084-81-5  
3-Cyanophenylboronic acid,  $\text{C}_7\text{H}_6\text{BNO}_2$ , 150255-96-2  
3-Hydroxyphenylboronic acid,  $\text{C}_6\text{H}_7\text{BO}_3$ , 87199-18-6  
3-Methoxycarbonylphenylboronic acid,  $\text{C}_8\text{H}_9\text{BO}_4$ , 99769-19-4  
3-Nitrophenylboronic acid,  $\text{C}_6\text{H}_6\text{BNO}_5$ , 13331-27-6  
3-Trifluoromethylphenylboronic acid,  $\text{C}_7\text{H}_6\text{BF}_3\text{O}_2$ , 1423-26-3  
4-(Dihydroxyborane)benzoic acid,  $\text{C}_6\text{H}_4\text{B}(\text{OH})_2\text{COOH}$   
4-Acetylphenylboronic acid,  $\text{CH}_3\text{COC}_6\text{H}_4\text{B}(\text{OH})_2$ , 149104-90-5  
4-Borono-L-phenylalanine,  $\text{C}_9\text{H}_{12}\text{BNO}_4$ , 76410-58-7  
4-Chlorophenyl boronic acid,  $\text{C}_6\text{H}_6\text{BClO}_2$ , 1679-18-1  
4-Dimethylaminophenylboronic acid,  $\text{C}_8\text{H}_{12}\text{BNO}_2$ , 28611-39-4  
4-Hydroxyphenylboronic acid,  $\text{C}_6\text{H}_7\text{BO}_4$ , 71597-85-8  
4-Methoxycarbonylphenylboronic acid,  $\text{C}_8\text{H}_9\text{BO}_4$ , 99768-12-4  
4-Methylthiophene-2-boronic acid,  $\text{C}_5\text{H}_7\text{BO}_2\text{S}$ , 162607-15-0  
4-Phenoxphenylboronic acid,  $\text{C}_{12}\text{H}_{11}\text{BO}_3$ , 51067-38-0  
8-Quinolineboronic acid,  $\text{C}_9\text{H}_8\text{BNO}_2$ , 86-58-8  
Alumina neutral activity IV  
Aluminum ammonium sulfate,  $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ , 7784-26-1  
Aluminum chloride hexahydrate,  $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ , 7784-13-6  
Aluminum fluoride,  $\text{AlF}_3$ , 7784-18-1  
Aluminum isopropoxide,  $\text{C}_9\text{H}_{21}\text{AlO}_3$ , 555-31-7  
Aluminum molybdate,  $\text{Al}_2(\text{MoO}_4)_3$ , 15123-80-5  
Aluminum nitrate nonahydrate,  $\text{Al}_2(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ , 7784-27-2  
Aluminum oxide,  $\text{Al}_2\text{O}_3$ , 1344-28-1  
Aluminum potassium sulfate dodecahydrate,  $\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ , 7784-24-9

Aluminum silicate,  $\text{Al}_2\text{O}_7\text{Si}_2$ , 1332-58-7  
Aluminum sulfate hydrate,  $\text{Al}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$ , hydrates = 14 to 18  
Aluminum sulfide,  $\text{Al}_2\text{S}_3$ , 12251-90-0  
Aluminum tungstate, 15123-82-7  
Ammonium acetate,  $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ ,  $\text{NH}_4\text{CH}_3\text{CO}_2$ , 631-61-8  
Ammonium bicarbonate,  $\text{NH}_4\text{HCO}_3$ , 1066-33-7  
Ammonium carbonate,  $(\text{NH}_4)_2\text{CO}_3$ , 506-87-6  
Ammonium chloride,  $\text{NH}_4\text{Cl}$ , 12125-02-9  
Ammonium citrate dibasic,  $(\text{NH}_4)_2 \cdot \text{HC}_3\text{H}_5\text{O}_7$ , 3012-65-5  
Ammonium fluoride,  $\text{NH}_4\text{F}$ , 12125-01-8  
Ammonium formate,  $\text{CH}_5\text{NO}_2$ , 540-69-2  
Ammonium iodide,  $\text{NH}_4\text{I}$ , 12027-06-4  
Ammonium metavanadate,  $\text{NH}_4\text{VO}_3$ , 7803-55-6  
Ammonium molybdate tetrahydrate,  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$ , 12054-85-2  
Ammonium nickel sulfate hexahydrate,  $(\text{NH}_4)_2\text{SO}_4\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ , 7785-20-8  
Ammonium nitrate,  $\text{NH}_4\text{NO}_3$ , 6484-52-2  
Ammonium oxalate hydrate,  $(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$ , 6009-70-7  
Ammonium persulfate,  $(\text{NH}_4)_2\text{S}_2\text{O}_8$ , 7727-54-0  
Ammonium phosphate dibasic,  $(\text{NH}_4)_2\text{HPO}_4$ , 7783-28-0  
Ammonium phosphate monobasic,  $\text{NH}_4\text{H}_2\text{PO}_4$ , 7722-76-1  
Ammonium sulfate,  $(\text{NH}_4)_2\text{SO}_4$ , 7783-20-2  
Ammonium thiocyanate,  $\text{NH}_4\text{SCN}$ , 1762-95-4  
Ammonium-15N sulfate, 43086-58-4  
Anhydron, 10034-81-8  
Antimony (III) chloride,  $\text{Cl}_3\text{Sb}$ , 10025-91-9  
Antimony (III) isopropoxide,  $\text{Sb}(\text{OCH}(\text{CH}_3)_2)_3$ , 18770-47-3  
Antimony (III) isopropoxide,  $\text{Sb}(\text{OCH}(\text{CH}_3)_2)_3$ , 18770-47-3  
Antimony (III) sulfide,  $\text{S}_6\text{Sb}_4$ , 1345-04-6  
Antimony oxide, 1301-64-4  
Antimony pentasulfide,  $\text{Sb}_2\text{S}_5$ , 1315-04-4  
Antimony potassium tartrate trihydrate,  $\text{Sb}_2\text{C}_8\text{H}_4\text{K}_2\text{O}_{12} \cdot 3\text{H}_2\text{O}$ , 28300-74-5  
Antimony trioxide,  $\text{Sb}_2\text{O}_3$ , 1309-64-4  
Arsenic (III) oxide,  $\text{As}_2\text{O}_3$ , 1327-53-3  
Barium acetate,  $\text{Ba}(\text{C}_2\text{H}_3\text{O}_2)_2$ , 543-80-6  
Barium aluminate,  $\text{BaAl}_2\text{O}_4$ , 12004-04-5  
Barium carbonate,  $\text{BaCO}_3$ , 513-77-9  
Barium chloranilate,  $\text{BaC}_6\text{Cl}_2\text{O}_4$ , 3435-46-6  
Barium chloride dihydrate,  $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ , 10326-27-9  
Barium chloride,  $\text{BaCl}_2$ , 10361-37-2  
Barium hydroxide octahydrate,  $\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$ , 12230-71-6  
Barium molybdate,  $\text{BaMoO}_4$ , 7787-37-3  
Barium nitrate,  $\text{Ba}(\text{NO}_3)_2$ , 10022-31-8  
Barium oxalate,  $\text{C}_2\text{BaO}_4$ , 516-02-9  
Barium oxide,  $\text{BaO}$ , 1304-28-5  
Barium sulfate,  $\text{BaSO}_4$ , 7727-43-7  
Barium titanate,  $\text{BaTiO}_3$ , 12047-27-7  
Benzyl(chloro)bis(triphenylphosphine)palladium(II) chloride, Trans-, 22784-59-4

Beryllium sulfate,  $\text{BeSO}_4$ , 13510-49-1  
Bis(cyclopentadienyl) zirconium hydride chloride,  $\text{C}_{10}\text{H}_{11}\text{ClZr}$ , 37342-97-5  
Bis(cyclopentadienyl)cobalt,  $\text{Co}(\text{C}_5\text{H}_5)_2$ , 1277-43-6  
Bis(dibenzylideneacetone)palladium,  $\text{PdC}_{34}\text{H}_{28}\text{O}_2$ , 32005-36-0  
Bis(neopentylglycolato)diboron,  $\text{C}_{10}\text{H}_{20}\text{B}_2\text{O}_4$ , 201733-56-4  
Bis(triphenylphosphine) cobalt (II) chloride,  $\text{C}_{36}\text{H}_{30}\text{Cl}_2\text{CoP}_2$ , 14126-40-0  
Bis[tricarbonyl(triphenylphosphine) cobalt]  
Bismuth ammonium citrate decahydrate,  $\text{C}_{24}\text{H}_{20}\text{Bi}_4\text{O}_{28}\cdot 6\text{NH}_3\cdot 10\text{H}_2\text{O}$ , 31886-41-6  
Bismuth carbonate basic,  $\text{BiCO}_3$ , 5892-10-4  
Bismuth gallate basic,  $\text{C}_7\text{H}_5\text{BiO}_6$ , 99-26-3  
Bismuth trichloride,  $\text{BiCl}_3$ , 787-60-2  
Bismuth trioxide,  $\text{Bi}_2\text{O}_3$ , 1304-76-3  
Bismuth tungstate,  $\text{Bi}_2(\text{WO}_4)_3$ , 13595-87-4  
Boric acid,  $\text{H}_3\text{BO}_3$ , 10043-35-3  
Boric oxide,  $\text{B}_2\text{O}_3$ , 1303-86-2  
Boron carbide,  $\text{BC}$ , 12069-32-8  
Boron nitride,  $\text{BN}$ , 10043-11-5  
Boron oxide,  $\text{B}_2\text{O}_3$ , 1303-86-2  
Cadmium carbonate,  $\text{CdCO}_3$ , 513-78-0  
Cadmium chloride hemipentahydrate,  $\text{CdCl}_2\cdot(2+) \text{H}_2\text{O}$ , 7790-78-5  
Cadmium molybdate,  $\text{CdMoO}_4$ , 13972-68-4  
Cadmium nitrate tetrahydrate,  $\text{Cd}(\text{NO}_3)_2\cdot 4\text{H}_2\text{O}$ , 10022-68-1  
Cadmium oxide,  $\text{CdO}$ , 1306-19-0  
Cadmium sulfate octahydrate,  $3\text{CdSO}_4\cdot 8\text{H}_2\text{O}$ , 7790-84-3  
Cadmium sulfate,  $\text{CdSO}_4$ , 10124-36-4  
Cadmium tungstate,  $\text{CdWO}_4$ , 7790-85-4  
Calcium acetate hydrate,  $\text{Ca}(\text{CH}_3\text{CO}_2)_2\cdot x\text{H}_2\text{O}$ , 62-54-4  
Calcium acetate,  $\text{CaCH}_3\text{CO}_2$ , 62-54-4  
Calcium acetylacetonate,  $\text{CaC}_{10}\text{H}_{14}\text{O}_4$ , 19372-44-2  
Calcium bromide hydrate,  $\text{CaBr}_2\cdot x\text{H}_2\text{O}$ , 71626-99-8  
Calcium carbide,  $\text{CaC}_2$ , 75-20-7  
Calcium carbonate,  $\text{CaCO}_3$ , 471-34-1  
Calcium chloride dihydrate,  $\text{CaCl}_2\cdot 2\text{H}_2\text{O}$ , 10035-04-8  
Calcium chloride,  $\text{CaCl}_2$ , 10043-52-4  
Calcium citrate tetrahydrate,  $\text{C}_{12}\text{H}_{10}\text{Ca}_3\text{O}_{14}\cdot 4\text{H}_2\text{O}$ , 5785-44-4  
Calcium fluoride,  $\text{CaF}_2$ , 7789-75-5  
Calcium gluconate monohydrate,  $\text{C}_{12}\text{H}_{22}\text{CaO}_4\cdot \text{H}_2\text{O}$ , 18016-24-5  
Calcium hydroxide,  $\text{Ca}(\text{OH})_2$ , 1305-62-0  
Calcium hypochlorite,  $\text{Ca}(\text{OCl})_2$ , 7778-54-3  
Calcium iodide,  $\text{CaI}_2$ , 71626-98-7  
Calcium lactate pentahydrate,  $\text{C}_6\text{H}_{10}\text{CaO}_6\cdot 5\text{H}_2\text{O}$ , 814-80-2  
Calcium molybdate,  $\text{CaMoO}_4$ , 7789-82-4  
Calcium nitrate tetrahydrate,  $\text{Ca}(\text{NO}_3)_2\cdot 4\text{H}_2\text{O}$ , 13477-34-4  
Calcium oxide,  $\text{CaO}$ , 1305-78-8  
Calcium phosphate dibasic,  $\text{CaHPO}_4$ , 7757-93-9  
Calcium phosphate hydrate,  $\text{Ca}(\text{H}_2\text{PO}_4)_2\cdot \text{H}_2\text{O}$ , 7758-23-8  
Calcium phosphate monobasic,  $\text{Ca}(\text{H}_2\text{PO}_4)_2\cdot \text{H}_2\text{O}$ , 10031-30-8

Calcium proprionate monohydrate,  $\text{Ca}(\text{CH}_3\text{CH}_2\text{COO})_2$ , 4075-81-4  
Calcium Stearate,  $\text{C}_{36}\text{H}_{70}\text{CaO}_4$ , 1592-23-0  
Calcium sulfate hemihydrate,  $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$ , 10034-76-1  
Calcium sulfate,  $\text{CaSO}_4$ , 7778-18-9  
Calcium tungstate,  $\text{CaWO}_4$ , 7790-75-2  
Calcium zirconate,  $\text{CaZrO}_3$ , 11129-15-0  
celite(r)-503, diatomaceous earth  
Ceric ammonium nitrate,  $\text{Ce}(\text{NH}_4)_2(\text{NO}_3)_6$ , 16774-21-3  
Ceric ammonium sulfate dihydrate,  $\text{Ce}(\text{NH}_4)_4(\text{SO}_4)_4 \cdot 2\text{H}_2\text{O}$ , 10378-47-9  
Ceric sulfate,  $\text{Ce}(\text{HSO}_4)_4$ , 13590-82-4  
Cerium (III) carbonate,  $\text{Ce}_2(\text{CO}_3)_3 \cdot \text{XH}_2\text{O}$ , 54451-25-1  
Cerium acetylacetonate,  $\text{CeC}_{15}\text{H}_{21}\text{O}_6$ , 15653-01-7  
Cerium nitrate,  $\text{Ce}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ , 17309-53-4  
Cerium titanate,  $\text{CeTiO}_4$ , 52014-82-1  
Cerium tris(2,2,6,6-tetramethyl-3,5-heptanedionato)  
Cerium zirconate,  $\text{Ce}_2\text{O}_7\text{Zr}_2$ , 53169-24-7  
Cerium(III) 2-ethylhexanoate,  $\text{Ce}[\text{OOCCH}(\text{C}_2\text{H}_5)\text{C}_4\text{H}_9]_3$ , 56797-01-4  
Cerium(III) sulfate,  $\text{Ce}_2(\text{SO}_4)_3$ , 13454-94-9  
Cesium carbonate,  $\text{Ce}_2\text{CO}_3$ , 534-17-8  
Cesium chloride,  $\text{CsCl}$ , 7647-17-8  
Cesium chromate,  $\text{CsCrO}_4$ , 13454-78-9  
Cesium molybdate,  $\text{Cs}_2\text{MoO}_4$ , 13597-64-2  
Cesium nitrate,  $\text{CsNO}_3$ , 7789-18-6  
Cesium sulfate,  $\text{Cs}_2\text{SO}_4$ , 10294-54-9  
charcoal, air float  
Chloropentaamine cobalt (III) chloride,  $\text{H}_{15}\text{Cl}_3\text{CoN}_5$ , 13859-51-3  
Chromic acetate hydrate,  $\text{Cr}(\text{CH}_3\text{COO})_3 \cdot \text{H}_2\text{O}$ , 1066-30-4  
Chromium (III) chloride hexahydrate,  $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$ , 10060-12-5  
Chromium (III) oxide, green,  $\text{Cr}_2\text{O}_3$ , 1308-38-9  
Chromium acetylacetonate,  $\text{C}_{15}\text{H}_{21}\text{CrO}_6$ , 21679-31-2  
Chromium nitrate nonahydrate,  $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ , 2150-95-4  
Chromium potassium sulfate dodecahydrate,  $\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ , 7788-99-0  
Chromium sulfate hydrate,  $\text{Cr}_2(\text{SO}_4)_3 \cdot \text{xH}_2\text{O}$ , 10101-53-8  
Chromium trioxide,  $\text{CrO}_3$ , 1333-82-0  
Cobalt (II) bromide,  $\text{CoBr}_2$ , 7789-43-7  
Cobalt (II) carbonate,  $\text{CoCO}_3$ , 513-79-1  
Cobalt (II) carbonate,  $\text{CoCO}_3$ , 534-16-7  
Cobalt acetate tetrahydrate,  $\text{Co}(\text{C}_2\text{H}_3\text{O})_2 \cdot 4\text{H}_2\text{O}$ , 6147-53-1  
Cobalt acetate, 71-48-7  
Cobalt chloride,  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ , 7791-13-1  
Cobalt nitrate hexahydrate,  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ , 10026-22-9  
Cobalt oxide,  $\text{Co}_3\text{O}_4$ , 1308-06-1  
Cobalt sulfate heptahydrate,  $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ , 10026-24-1  
Cobalt sulfate,  $\text{CoSO}_4$ , 10124-43-3  
Cobalt titanate,  $\text{CoTiO}_3$ , 12017-01-5  
Cobalt(II) sulfamate tetrahydrate, 14017-41-5  
Cobinamide dicyanide 2.5 hydrate, 27792-36-5

Copper (II) cyclohexanebutyrate, [C<sub>6</sub>H<sub>11</sub>(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>]<sub>2</sub>Cu, 2218-80-6  
Copper (II) ethoxide, C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>Cu, 2850-65-9  
Copper (II) trifluoromethanesulfonate, CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub>Cu, 34946-82-2  
Copper bis(2,2-dimethyl-6,6,7,7,8,8,8-heptafluoro-3,5-octanedionate), Cu(C<sub>10</sub>H<sub>10</sub>F<sub>7</sub>O<sub>2</sub>)<sub>2</sub>, 80289-21-0  
Copper hexafluoroacetylacetonate, Cu(C<sub>10</sub>H<sub>2</sub>F<sub>12</sub>O<sub>4</sub>)<sub>2</sub>, 14781-45-4  
Copper trifluoroacetate, Cu(CF<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>.xH<sub>2</sub>O, 123333-88-0  
Copper trifluoroacetate, Cu(CF<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>.xH<sub>2</sub>O, 123333-88-0  
Copper trifluoroacetylacetonate, CuC<sub>10</sub>H<sub>8</sub>F<sub>6</sub>O<sub>4</sub>, 14324-82-4  
Copper tungstate, CuWO<sub>4</sub>, 1358777-35-4  
Copper(I) acetate, CuC<sub>2</sub>H<sub>3</sub>O<sub>2</sub>, 598-54-9  
Copper(II) sulfamate  
Cupric acetate monohydrate, Cu(CH<sub>3</sub>COO)<sub>2</sub>.H<sub>2</sub>O, 6046-93-1  
Cupric carbonate basic, CuCO<sub>3</sub>.Cu(OH)<sub>2</sub>, 12069-69-1  
Cupric chloride dihydrate, CuCl<sub>2</sub>.2H<sub>2</sub>O, 10125-13-0  
Cupric nitrate hemipentahydrate, Cu(NO<sub>3</sub>)<sub>2</sub>.(2 +)H<sub>2</sub>O, 3251-23-8  
Cupric oxide, CuO, 1317-38-0  
Cupric sulfate pentahydrate, CuSO<sub>4</sub>.5H<sub>2</sub>O, 7758-99-8  
Cuprous chloride, CuCl, 7785-89-6  
Cuprous iodide, CuI, 7681-65-4  
Cuprous oxide red, Cu<sub>2</sub>O, 1317-39-1  
Cyanoacetic acid, CNCH<sub>2</sub>COOH, 372-09-8  
Cyclohexylboronic acid, C<sub>6</sub>H<sub>13</sub>BO<sub>2</sub>, 4441-56-9  
Dibenzofuran-4-boronic acid, C<sub>12</sub>H<sub>9</sub>BO<sub>3</sub>, 100124-06-9  
Dicyandiamide, C<sub>2</sub>N<sub>4</sub>H<sub>4</sub>, 461-58-5  
Dithiooxamide, C<sub>2</sub>H<sub>4</sub>N<sub>4</sub>S<sub>2</sub>, 79-40-3  
Drierite(r), Calcium sulfate, CaSO<sub>4</sub>, 7778-18-9  
Dysprosium acetylacetonate, DyC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14637-88-8  
Dysprosium carbonate tetrahydrate, Dy<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>.4H<sub>2</sub>O, 38245-35-1  
Dysprosium hexafluoroacetylacetonate, DyC<sub>10</sub>H<sub>2</sub>F<sub>12</sub>O<sub>4</sub>  
Dysprosium oxide, Dy<sub>2</sub>O<sub>3</sub>, 1308-87-8  
Dysprosium sulfate, Dy<sub>2</sub>H<sub>16</sub>O<sub>20</sub>S<sub>3</sub>, 10031-50-2  
Dysprosium trifluoroacetylacetonate  
Dysprosium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15522-69-7  
Erbium acetate hydrate, Er(O<sub>2</sub>C<sub>2</sub>H<sub>3</sub>)<sub>3</sub>.xH<sub>2</sub>O, 15280-57-6  
Erbium acetylacetonate, ErC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14553-08-3  
Erbium carbonate, Er<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>.xH<sub>2</sub>O, 22992-83-2  
Erbium cyclohexanebutyrate, Er(C<sub>10</sub>H<sub>17</sub>O<sub>2</sub>)<sub>3</sub>  
Erbium oxide, Er<sub>2</sub>O<sub>3</sub>, 12061-16-4  
Erbium sulfate, Er<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>, 13478-49-4  
Ethylenediamine dihydrochloride, 333-18-6  
Europium acetylacetonate, 14284-86-7  
Europium chloride hexahydrate, EuCl<sub>3</sub>.6H<sub>2</sub>O, 10025-76-0  
Europium hexafluoroacetylacetonate  
Europium nitrate hexahydrate, 10031-53-5  
Europium oxalate decahydrate, 30618-31-6  
Europium oxide, EuO, 1308-96-9  
Europium sulfate octahydrate, Eu<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>.8H<sub>2</sub>O, 10031-55-7

Europium trifluoroacetylacetonate, 52093-64-1  
Europium trifluoromethanesulfonate, 139177-64-3  
Europium tris(2,2,6,6-tetramethyl-3,5-heptanedionato) 15522-73-3  
Europium tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato), 14054-87  
Europium tris(thenoyltrifluoroacetate), 14054-87-6  
Europium tris[3-(heptafluoropropylhydroxymethylene-(+)-camphorato)]  
Ferric ammonium citrate green,  $\text{Fe}(\text{NH}_4)(\text{SO}_4)_2$ , 1185-57-5  
Ferric ammonium sulfate dodecahydrate,  $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_6 \cdot 12\text{H}_2\text{O}$ , 7783-83-7  
Ferric citrate trihydrate,  $\text{Fe}_2(\text{C}_6\text{H}_5\text{O}_7)_3 \cdot 3\text{H}_2\text{O}$ , 17217-76-4  
Ferric nitrate nonahydrate,  $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ , 7782-61-8  
Ferric oxide red,  $\text{Fe}_2\text{O}_3$ , 1309-37-1  
Ferric pyrophosphate,  $\text{Fe}_4(\text{P}_2\text{O}_7)_3$ , 10058-44-3  
Ferrous ammonium sulfate hexahydrate,  $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ , 7783-85-9  
Ferrous sulfate heptahydrate,  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ , 7782-63-0  
Ferrous sulfate,  $\text{FeSO}_4$ , 7720-78-7  
Gadolinium 2-ethylhexanoate,  $\text{GdC}_{24}\text{H}_{45}\text{O}_6$ , 19189-19-6  
Gadolinium acetate tetrahydrate,  $\text{GdC}_6\text{H}_9\text{O}_6 \cdot 4\text{H}_2\text{O}$ , 15280-53-2  
Gadolinium acetylacetonate,  $\text{GdC}_{15}\text{H}_{21}\text{O}_6$ , 14284-87-8  
Gadolinium hexafluoroacetylacetonate,  $\text{GdC}_{10}\text{H}_2\text{F}_{12}\text{O}_4$   
Gadolinium nitrate,  $\text{Gd}(\text{NO}_3)_3$ , 10168-81-7  
Gadolinium oxalate,  $\text{Gd}_2(\text{C}_2\text{O}_4)_3$ , 867-64-1  
Gadolinium oxide,  $\text{Gd}_2\text{O}_3$ , 12064-62-9  
Gadolinium sulfate octahydrate,  $\text{Gd}_2\text{O}_3 \cdot 8\text{H}_2\text{SO}_4$ , 13450-87-8  
Gadolinium sulfide,  $\text{Gd}_2\text{S}_3$ , 12134-77-9  
Gadolinium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 14768-15-1  
Gadolinium tris(2,2-dimethyl-6,6,7,7,8,8,8-heptafluoro-3,5-octanedionato),  $\text{Gd}(\text{C}_{10}\text{H}_{10}\text{F}_7\text{O}_2)_3$ , 17631-67-3  
Gallium (III) ethoxide,  $\text{C}_6\text{H}_{15}\text{GaO}_3$ , 2572-25-0  
Gallium (III) nitrate hydrate,  $\text{Ga}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$ , 69365-72-6  
Gallium acetylacetonate,  $\text{GaC}_{15}\text{H}_{21}\text{O}_6$ , 14405-43-7  
Gallium sulfate,  $\text{Ga}_2(\text{SO}_4)_3$ , 13494-91-2  
Germanium oxide,  $\text{GeO}_2$ , 1310-53-8  
Hafnium oxide,  $\text{HfO}_2$ , 12055-23-1  
Hexamine cobalt (III) chloride,  $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$ , 10534-89-1  
Holmium acetate hydrate,  $\text{Ho}(\text{C}_2\text{H}_3\text{O}_2)_3 \cdot x\text{H}_2\text{O}$ , 25519-09-9  
Holmium nitrate hexahydrate,  $\text{Ho}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ , 14483-18-2  
Holmium sulfate,  $\text{Ho}_2(\text{SO}_4)_3$ , 15622-40-9  
Holmium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15522-73-3  
Holmium(III) oxide,  $\text{Ho}_2\text{O}_3$ , 12055-62-8  
Holmium(III) sulfide,  $\text{Ho}_2\text{S}_3$ , 12162-59-3  
Hydrazine sulfate,  $(\text{NH}_2)_2 \cdot \text{H}_2\text{SO}_4$ , 10034-93-2  
Hydroxyapatite, 12167-74-7  
Hydroxylamine hydrochloride,  $\text{NH}_2\text{OH} \cdot \text{HCl}$ , 5470-11-1  
Indium (III) acetate,  $\text{In}(\text{C}_2\text{H}_3\text{O}_2)_3$ , 25114-58-3  
Indium (III) nitrate hydrate,  $\text{In}(\text{NO}_3)_3 \cdot \text{H}_2\text{O}$ , 13465-14-0  
Indium antimonide,  $\text{InSb}$ , 1312-41-0  
Indium oxide,  $\text{In}_2\text{O}_3$ , 1312-43-2

Indium sulfate,  $\text{In}_2(\text{SO}_4)_3$ , 13464-82-9  
Indium(III) sulfide,  $\text{In}_2\text{S}_3$ , 12030-24-9  
Iodoacetamide,  $\text{C}_2\text{H}_4\text{INO}$ , 144-48-9  
Iodoacetic acid,  $\text{ICH}_2\text{COOH}$ , 64-69-7  
Iron (III) hydroxide, alpha,  $\text{Fe}(\text{OH})_3$ , 18624-44-7  
Iron (III) hydroxide, gamma,  $\text{Fe}_2\text{O}_3$ , 20344-49-4  
Iron trifluoroacetylacetonate, 14526-22-8  
Iron(III) 1,1,1-trifluoro-2,4-pentanedionate,  $\text{Fe}(\text{CF}_3\text{COCHCOCH}_3)_3$ , 14526-22-8  
Lanthanum 2,2,6,6-tetramethyl-3,5-heptanedionate, 14319-13-2  
Lanthanum acetate hydrate,  $\text{LaC}_6\text{H}_9\text{O}_6 \cdot x\text{H}_2\text{O}$ , 917-70-4  
Lanthanum carbonate,  $\text{La}_2(\text{CO}_3)_3$ , 6487-39-4  
Lanthanum chloride heptahydrate,  $\text{LaCl}_3 \cdot 7\text{H}_2\text{O}$ , 10025-84-0  
Lanthanum oxide,  $\text{La}_2\text{O}_3$ , 1312-81-8  
Lead acetate trihydrate,  $\text{Pb}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 3\text{H}_2\text{O}$ , 6080-56-4  
Lead carbonate,  $\text{PbCO}_3$ , 598-63-0  
Lead chloride,  $\text{PbCl}_2$ , 7758-95-4  
Lead citrate trihydrate,  $\text{Pb}_3\text{C}_{12}\text{H}_{10}\text{O}_{14}$ , 512-26-5  
Lead molybdate,  $\text{PbMoO}_4$ , 10190-55-3  
Lead nitrate,  $\text{Pb}(\text{NO}_3)_2$ , 10099-74-8  
Lead oxide,  $\text{PbO}$ , 1317-36-8  
Lead titanate,  $\text{PbTiO}_3$ , 12060-00-3  
Lead tungstate,  $\text{PbWO}_4$ , 7759-01-5  
Lithium acetate dihydrate,  $\text{Li}(\text{CH}_3\text{COO}) \cdot 2\text{H}_2\text{O}$ , 546-89-4  
Lithium bromide,  $\text{LiBr}$ , 7550-35-8  
Lithium carbonate,  $\text{Li}_2\text{CO}_3$ , 554-13-2  
Lithium chloride,  $\text{LiCl}$ , 7447-41-8  
Lithium iodide,  $\text{LiI}$ , 10377-51-2  
Lithium isopropoxide,  $\text{LiC}_3\text{H}_7\text{O}$ , 2388-10-5  
Lithium molybdate,  $\text{Li}_2\text{MoO}_4$ , 13568-40-6  
Lithium nitrate,  $\text{LiNO}_3$ , 7790-69-4  
Lithium orthophosphate,  $\text{Li}_3\text{PO}_4$ , 10377-52-3  
Lithium oxalate,  $\text{Li}_2\text{C}_2\text{O}_4$ , 553-91-3  
Lithium perchlorate, 7791-03-9  
Lithium phenoxide,  $\text{LiC}_6\text{H}_5\text{O}$ , 555-24-8  
Lithium sulfate hydrate,  $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ , 1012-25-7  
Lithium t-butoxide,  $\text{LiC}_4\text{H}_9\text{O}$ , 1907-33-1  
Lithium tetraborate,  $\text{Li}_2\text{B}_4\text{O}_7$ , 12007-60-2  
Lithium titanate,  $\text{Li}_2\text{TiO}_3$ , 12031-82-2  
Lutetium acetylacetonate,  $\text{LuC}_{15}\text{H}_{21}\text{O}_6$ , 17966-84-6  
Lutetium carbonate hydrate,  $\text{Lu}_2(\text{CO}_3)_3 \cdot \text{H}_2\text{O}$ , 5895-53-4  
Lutetium nitrate hexahydrate,  $\text{Lu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$ , 10099-67-9  
Lutetium oxide,  $\text{Lu}_2\text{O}_3$ , 122032-20-1  
Lutetium Phosphate,  $\text{LuPO}_4$ ,  
Magnesium acetate tetrahydrate, 16674-78-5  
Magnesium carbonate,  $\text{Mg}_2(\text{CO}_3)_2$ , 39409-82-0  
Magnesium chloride hexahydrate,  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ , 7791-18-6  
Magnesium hydroxide,  $\text{Mg}_2(\text{OH})_2$ , 1309-42-8

Magnesium nitrate hexahydrate,  $\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ , 13446-18-9  
Magnesium oxide,  $\text{MgO}$ , 1309-48-4  
Magnesium perchlorate,  $\text{Mg}(\text{ClO}_4)_2$ , 10034-81-8  
Magnesium silicate,  $\text{Mg}_2\text{SiO}_4$ , 1343-88-0  
Magnesium sulfate heptahydrate,  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ , 10034-99-8  
Magnesium sulfate,  $\text{MgSO}_4$ , 7484-88-9  
Magnesium titanate,  $\text{MgTiO}_3$ , 12032-30-3  
Magnesium tungstate,  $\text{MgWO}_4$ , 13573-11-0  
Manganese (II) acetate tetrahydrate,  $\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ , 16674-78-5  
Manganese (II) acetate tetrahydrate,  $\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ , 16674-78-5  
Manganese (II) acetate,  $\text{Mn}(\text{CH}_3\text{CO}_2)_2$ , 638-38-0  
Manganese (V) Oxide,  $\text{Mn}_2\text{O}_{10}$ ,  
Manganese carbonate,  $\text{MnCO}_3$ , 598-62-9  
Manganese chloride tetrahydrate,  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$ , 13446-34-9  
Manganese dioxide,  $\text{MnO}_2$ , 1313-13-9  
Manganese sulfate hydrate,  $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ , 10034-96-5  
Manganese sulfate,  $\text{MnSO}_4$ , 7785-87-7  
Manganese tungstate,  $\text{MnWO}_4$ , 14177-46-9  
Mercuric nitrate hydrate,  $\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$ , 7783-34-8  
Mercuric sulfate,  $\text{HgSO}_4$ , 7783-35-9  
Mercurous nitrate hydrate,  $\text{HgNO}_3 \cdot \text{H}_2\text{O}$ , 7782-86-7  
Mercury (II) acetate,  $\text{Hg}(\text{CH}_3\text{COO})_2$ , 1600-27-7  
Mercury (II) tetrathiocyanatocobaltate,  $\text{HgCo}(\text{CNS})_4$ , 27685-51-4  
Mercury oxide,  $\text{HgO}$ , 21908-53-2  
Mercury(II) perchlorate trihydrate, 73491-34-6  
Methyl ammonium chloride,  $\text{CH}_3\text{NH}_4 \cdot \text{HCl}$ , 593-51-1  
Molybdenum (VI) oxide,  $\text{MoO}_3$ , 1313-27-5  
Molybdic acid, 85,  $\text{MoH}_2\text{O}_4$ , mostly ammonium dimolybdate,  $(\text{NH}_4)_2\text{Mo}_2\text{O}_7$ , 7782-91-4  
Neodymium acetylacetonate,  $\text{NdC}_{15}\text{H}_{21}\text{O}_6$ , 14589-38-9  
Neodymium carbonate,  $\text{Nd}_2(\text{CO}_3)_3 \cdot x\text{H}_2\text{O}$ , 38245-38-4  
Neodymium cyclohexanebutyrate,  $\text{Nd}(\text{C}_{10}\text{H}_{17}\text{O}_2)_3$   
Neodymium hexafluoroacetylacetonate,  $\text{NdC}_{15}\text{H}_3\text{F}_{18}\text{O}_6 \cdot 2\text{H}_2\text{O}$ , 47814-18-6  
Neodymium trifluoroacetylacetonate,  $\text{NdC}_{15}\text{H}_{12}\text{F}_9\text{O}_6$ , 37473-67-9  
Neodymium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15492-47-4  
Neodymium(III) trioxide,  $\text{Nd}_2\text{O}_3$ , 1313-97-9  
Nickel (II) hydroxide,  $\text{H}_2\text{NiO}_2$ , 12054-48-7  
Nickel (II) sulfide,  $\text{NiS}$ , 16812-54-7  
Nickel bis(2,2,6,6-tetramethyl-3,5-heptanedionato), 14481-08-4  
Nickel carbonate basic tetrahydrate,  $\text{NiCO}_3 \cdot 2\text{Ni}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$ , 39430-27-8  
Nickel carbonate,  $\text{NiCO}_3$ , 3333-67-3  
Nickel chloride hexahydrate,  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$ , 7791-20-0  
Nickel nitrate hexahydrate,  $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ , 13478-00-7  
Nickel oxide Black,  $\text{Ni}_2\text{O}_3$ , 1314-06-3  
Nickel oxide Green,  $\text{NiO}$ , 1313-99-1  
Nickel sulfate hexahydrate,  $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ , 10101-97-0  
Nickel titanate,  $\text{NiTiO}_3$ , 12035-39-1  
Niobium (V) phenoxide, 16576-63-9



Niobium pentoxide, Nb<sub>2</sub>O<sub>5</sub>, 1313-90-8  
Niobium(IV) tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato), Nb(C<sub>11</sub>H<sub>19</sub>O<sub>2</sub>)<sub>4</sub>, 41706154  
Nitrilotriacetic acid, N(CH<sub>2</sub>COOH)<sub>3</sub>, 139-13-9  
Palladium hexafluoroacetylacetonate, PdC<sub>10</sub>H<sub>2</sub>F<sub>12</sub>O<sub>4</sub>, 64916-48-9  
Palladium oxalate, PdC<sub>2</sub>O<sub>4</sub>, 57592-57-1  
Palladium(II) acetate, 3375-31-3  
Periodic acid, IH<sub>5</sub>O<sub>6</sub>, 10540-60-9  
Phenylboronic acid, C<sub>6</sub>H<sub>5</sub>B(OH)<sub>2</sub>, 98-80-6  
Phosphorous pentoxide, P<sub>2</sub>O<sub>5</sub>, 1314-56-3  
Phosphotungstic acid, P<sub>2</sub>O<sub>5</sub>.24WO<sub>3</sub>.H<sub>2</sub>O, 12067-99-1  
Platinum acetylacetonate, PtC<sub>10</sub>H<sub>14</sub>O<sub>4</sub>, 15170-57-7  
Platinum hexafluoroacetylacetonate, PtC<sub>10</sub>H<sub>2</sub>F<sub>12</sub>O<sub>4</sub>, 65353-51-7  
Platinum oxide, 1314-15-4  
Potassium acetate, KCH<sub>3</sub>CO<sub>2</sub>, 127-08-2  
Potassium bicarbonate, KHCO<sub>3</sub>, 298-14-6  
Potassium bifluoride, KHF<sub>2</sub>, 7789-29-9  
Potassium carbonate, K<sub>2</sub>CO<sub>3</sub>, 584-08-7  
Potassium chlorate, KClO<sub>3</sub>, 3811-04-9  
Potassium chromate, K<sub>2</sub>CrO<sub>4</sub>, 7789005  
Potassium cyanate, KCNO, 590-28-3  
Potassium ferricyanide, K<sub>3</sub>Fe(CN)<sub>6</sub>, 13746-66-2  
Potassium ferrocyanide trihydrate, K<sub>4</sub>Fe(CN)<sub>6</sub>.3H<sub>2</sub>O, 14459-95-1  
Potassium fluoride dihydrate, KF.2H<sub>2</sub>O, 13455215  
Potassium hydroxide, KOH, 1310-58-3  
Potassium iodate, KIO<sub>3</sub>, 7758-05-6  
Potassium metaperiodate, KIO<sub>4</sub>, 790-21-8  
Potassium molybdate, K<sub>2</sub>MoO<sub>4</sub>, 13446-49-6  
Potassium nitrate, KNO<sub>3</sub>, 7757791  
Potassium nitrite, KNO<sub>2</sub>, 7758-09-0  
Potassium perchlorate, KClO<sub>4</sub>, 7778-74-7  
Potassium periodate, KIO<sub>4</sub>, 7790-21-8  
Potassium permanganate, KMnO<sub>4</sub>, 7722-64-7  
Potassium persulfate, K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>, 7727-21-1  
Potassium phosphate dibasic, K<sub>2</sub>HPO<sub>4</sub>, 7758-11-4  
Potassium phosphate monobasic, KH<sub>2</sub>PO<sub>4</sub>, 7778-77-0  
Potassium phosphate tribasic, K<sub>3</sub>PO<sub>4</sub>.xH<sub>2</sub>O, 7778-53-2  
Potassium phosphate trihydrate, 16788-57-1  
Potassium pyroantimonate, SbH<sub>6</sub>KO<sub>6</sub>, 12208-13-8  
Potassium pyrosulfate, 7790-62-7  
Potassium sulfate, K<sub>2</sub>SO<sub>4</sub>, 7778-80-5  
Potassium thiocyanate, KSCN, 333-20-0  
Potassium titanium oxalate hydrate, K<sub>2</sub>(TiO(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>).xH<sub>2</sub>O, 14402-67-6  
Praseodymium acetate, Pr(OOCCH<sub>3</sub>)<sub>3</sub>.xH<sub>2</sub>O, 6192-12-7  
Praseodymium hexafluoroacetylacetonate, PrC<sub>15</sub>H<sub>3</sub>F<sub>18</sub>O<sub>6</sub>, 47814-20-0  
Praseodymium oxide, Pr<sub>6</sub>O<sub>11</sub>, 12037-29-5  
Praseodymium phosphate, PrPO<sub>4</sub>, 14298-31-8  
Praseodymium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15492-48-5

Praseodymium tris(2,2-dimethyl-6,6,7,7,8,8,8-heptafluoro-3,5-octanedionate), Pr(C<sub>10</sub>H<sub>10</sub>F<sub>7</sub>O<sub>2</sub>)<sub>3</sub>, 17978-77-7

Propidium iodide, C<sub>27</sub>H<sub>34</sub>N<sub>4</sub>I<sub>2</sub>, 25535-16-4

Pumice, SiO<sub>2</sub> + Al<sub>2</sub>O<sub>3</sub> Mixture

Rhenium oxide, Re<sub>2</sub>O<sub>7</sub>, 1314-68-7

Rhodium(II) acetate dimer, 15956-28-2

Rubidium carbonate, Rb<sub>2</sub>CO<sub>3</sub>, 584-09-9

Rubidium chromate, Rb<sub>2</sub>CrO<sub>4</sub>, 13446-72-5

Rubidium sulfate, Rb<sub>2</sub>SO<sub>4</sub>, 7488-54-2

Samarium 2,2,6,6-tetramethyl-3,5-heptanedionato, 15492-50-9

Samarium 2,4-pentanedionate, SmC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14589-42-5

Samarium 2-ethylhexanoate, Sm[OOCCH(C<sub>2</sub>H<sub>5</sub>)C<sub>4</sub>H<sub>9</sub>]<sub>3</sub>

Samarium carbonate hydrate, Sm<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>.H<sub>2</sub>O, 5895-47-6

Samarium nitrate, Sm(NO<sub>3</sub>)<sub>3</sub>, 10361-83-8

Samarium tris(Thenoyltrifluoroacetate), 41884-73-5

Samarium(III) oxide, Sm<sub>2</sub>O<sub>3</sub>, 12060-58-1

Scandium 2-ethylhexanoate, Sc[OOCCH(C<sub>2</sub>H<sub>5</sub>)C<sub>4</sub>H<sub>9</sub>]<sub>3</sub>

Scandium acetylacetonate, ScC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14284-94-7

Scandium hexafluoroacetylacetonate, C<sub>15</sub>H<sub>3</sub>F<sub>18</sub>O<sub>6</sub>Sc, 18990-42-6

Scandium oxide, Sc<sub>2</sub>O<sub>3</sub>, 12060-08-1

Scandium phosphate, Sc(PO<sub>4</sub>)<sub>3</sub>

Scandium trifluoromethanesulfonate, ScC<sub>3</sub>F<sub>9</sub>O<sub>9</sub>S<sub>3</sub>, 144026-79-9

Scandium(III) nitrate, ScH<sub>2</sub>N<sub>3</sub>O<sub>10</sub>, 13465-60-6

Scandium(III) triflate, 144026-76-9

Selenous acid, SeH<sub>2</sub>O<sub>3</sub>, 7783-00-8

Silica Gel, 7-230 mesh, pore volume 0.75cm<sup>3</sup>/gm, 112926008

Silicic acid, SiO<sub>2</sub>.xH<sub>2</sub>O, 7699-41-4

Silver (I) carbonate, Ag<sub>2</sub>CO<sub>3</sub>, 534-16-7

Silver (I) diethyldithiocarbamate, AgC<sub>5</sub>H<sub>10</sub>NS<sub>2</sub>, 1470-61-7

Silver (I) oxide, Ag<sub>2</sub>O, 20667-12-3

Silver 2,2-dimethyl-6,6,7,7,8,8,8-heptafluoro-3,5-octanedionate), AgC<sub>10</sub>H<sub>10</sub>F<sub>7</sub>O<sub>2</sub>, 76121-99-8

Silver acetate, AgC<sub>2</sub>H<sub>2</sub>O<sub>2</sub>, 563-63-3

Silver acetylacetonate, AgC<sub>5</sub>H<sub>7</sub>O<sub>2</sub>, 15525-64-1

Silver nitrate, AgNO<sub>3</sub>, 7761-88-8

Silver sulfate, Ag<sub>2</sub>SO<sub>4</sub>, 10294-26-5

Sodium acetate trihydrate, CH<sub>3</sub>CO<sub>2</sub>Na, 6131-90-4

Sodium arsenite, NaAsO<sub>2</sub>, 7784-56-4

Sodium azide, NaN<sub>3</sub>, 22628-22-8

Sodium bicarbonate, NaHCO<sub>3</sub>, 144-55-8

Sodium bismuthate, BiNaO<sub>3</sub>, 12232-99-4

Sodium bisulfate, NaHSO<sub>4</sub>, 7681-38-1

Sodium bisulfite, NaHSO<sub>3</sub>, 7631-90-5

Sodium borate decahydrate, Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>.10H<sub>2</sub>O, 1303-96-4

Sodium carbonate hydrate, Na<sub>2</sub>CO<sub>3</sub>.H<sub>2</sub>O, 598-11-6

Sodium carbonate, Na<sub>2</sub>CO<sub>3</sub>, 497-19-8

Sodium chlorate, NaClO<sub>3</sub>, 7775-09-9

Sodium chromate tetrahydrate, Na<sub>2</sub>CrO<sub>4</sub>.4H<sub>2</sub>O, 10034829

Sodium citrate dihydrate, 6132-04-3  
Sodium cobaltinitrite,  $\text{NaCo}(\text{NO}_2)_6$ , 13600-98-1  
Sodium cyanide,  $\text{NaCN}$ , 143-33-9  
Sodium diethyl dithiocarbamate,  $\text{C}_5\text{H}_{10}\text{NNaS}_2 \cdot 3\text{H}_2\text{O}$ , 20624-25-3  
Sodium formaldehyde sulfoxylate dihydrate,  $\text{CH}_3\text{NaO}_3\text{S} \cdot 2\text{H}_2\text{O}$ , 6035-47-8  
Sodium hydrogen arsenate heptahydrate, 10048-95-0  
Sodium hydrogen sulfide,  $\text{NaHS}$ , 16721-80-5  
Sodium hydrosulfite,  $\text{Na}_2\text{S}_2\text{O}_4$ , 7775-14-6  
Sodium hydroxide,  $\text{NaOH}$ , 1310-73-2  
Sodium hypophosphite hydrate,  $\text{H}_2\text{NaO}_2\text{P} \cdot \text{H}_2\text{O}$ , 10039-56-2  
Sodium iodate,  $\text{NaIO}_3$ , 7681-55-2  
Sodium iodide,  $\text{NaI}$ , 7681-82-5  
Sodium metaarsenite,  $\text{NaAsO}_2$ , 7784-46-5  
Sodium metabisulfite,  $\text{Na}_2\text{S}_2\text{O}_5$ , 7681-57-4  
Sodium metasilicate pentahydrate,  $\text{NaSiO}_3 \cdot 5\text{H}_2\text{O}$ , 6834-92-0  
Sodium metavanadate,  $\text{NaVO}_3$ , 13718-26-8  
Sodium molybdate dihydrate,  $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$ , 10102-40-6  
Sodium molybdate, 7631-95-0  
Sodium nitrate,  $\text{NaNO}_3$ , 7631-99-4  
Sodium nitrite,  $\text{NaNO}_2$ , 7632-00-0  
Sodium nitroprusside dihydrate,  $\text{NaFe}(\text{CN})_5\text{NO} \cdot 2\text{H}_2\text{O}$ , 13755-38-9  
Sodium orthovanadate(V),  $\text{Na}_3\text{VO}_4$ , 13721-39-6  
Sodium oxalate,  $\text{Na}_2\text{C}_2\text{O}_4$ , 62-76-0  
Sodium periodate, meta,  $\text{NaIO}_4$ , 7790-28-5  
Sodium peroxide,  $\text{Na}_2\text{O}_2$ , 1313-60-6  
Sodium phosphate dibasic, heptahydrate,  $\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$ , 7782-85-6  
Sodium phosphate dibasic,  $\text{Na}_2\text{HPO}_4$ , 7558-79-4  
Sodium phosphate monobasic hydrate,  $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ , 10049-21-5  
Sodium phosphate tribasic dodecahydrate,  $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$ , 10101-89-0  
Sodium propionate,  $\text{CH}_3\text{CH}_2\text{COONa}$ , 137-40-6  
Sodium pyrophosphate decahydrate,  $\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$ , 13472-36-1  
Sodium sulfate decahydrate,  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ , 7727-73-3  
Sodium sulfate,  $\text{Na}_2\text{SO}_4$ , 7757-82-6  
Sodium sulfite,  $\text{Na}_2\text{SO}_3$ , 7757-83-7  
Sodium tetraborate,  $\text{B}_4\text{Na}_2\text{O}_7$ , 1330-43-4  
Sodium thiophosphate,  $\text{Na}_3\text{PO}_3\text{S}$ , 10489-48-2  
Sodium thiosulfate pentahydrate,  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ , 10102-17-7  
Sodium thiosulfate,  $\text{Na}_2\text{S}_2\text{O}_3$ , 7772-98-7  
Sodium titanate,  $\text{Na}_2\text{TiO}_3$ , 12034-34-3  
Sodium triacetoxyborohydride, 56553-60-7  
Sodium tungstate dihydrate,  $\text{NaWO}_4 \cdot 2\text{H}_2\text{O}$ , 10213-10-2  
Sodium tungstate, 13472-45-2  
Stannic chloride pentahydrate,  $\text{SnCl}_4 \cdot 5\text{H}_2\text{O}$ , 10026-06-9  
Stannic oxide,  $\text{SnO}_2$ , 18282-10-5  
Stannous chloride dihydrate,  $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$ , 10025-69-1  
Stannous sulfate,  $\text{SnSO}_4$ , 74885-57-7  
Strontium acetylacetonate,  $\text{SrC}_{10}\text{H}_{14}\text{O}_4 \cdot x\text{H}_2\text{O}$ , 12193-47-4

Strontium carbonate, SrCO<sub>3</sub>, 1633-05-2  
Strontium chloride hexahydrate, SrCl<sub>2</sub>·6H<sub>2</sub>O, 10025-70-4  
Strontium hydrogen phosphate, SrHPO<sub>4</sub>, 13450-99-2  
Strontium nitrate, Sr(NO<sub>3</sub>)<sub>2</sub>, 10042-76-9  
Strontium oxide, SrO, 1314-11-0  
Strontium sulfate, SrSO<sub>4</sub>, 759-02-6  
Strontium titanate, SrTiO<sub>3</sub>, 1206-05-9  
Strontium titanate, SrTiO<sub>3</sub>, 12060-59-2  
Strontium tungstate, Sr<sub>2</sub>(WO<sub>4</sub>)<sub>2</sub>, 13451-05-3  
Talc, 3MgO·4SiO<sub>2</sub>·H<sub>2</sub>O, 14807-96-6  
Tantalum oxide, Ta<sub>2</sub>O<sub>5</sub>, 1314-61-0  
Tantalum silicate, TaSiO<sub>2</sub>  
Tellurium (IV) oxide, TeO<sub>2</sub>, 7446-07-3  
Terbium acetylacetonate, TbC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14284-95-8  
Terbium hexafluoroacetylacetonate, TbC<sub>10</sub>H<sub>2</sub>F<sub>12</sub>O<sub>4</sub>  
Terbium oxalate, Tb<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub>·10H<sub>2</sub>O, 24670-06-2  
Terbium oxide, O<sub>3</sub>Tb<sub>2</sub>, 12036-41-8  
Terbium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15492-51-0  
Terbium tris(thenoyltrifluoroacetate)  
Terbium(III) carbonate hydrate, Tb<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>·H<sub>2</sub>O, 100587-96-0  
Tetrabutylammonium perchlorate, 1923-70-2  
Tetraethoxysilane, Si(OC<sub>2</sub>H<sub>5</sub>)<sub>4</sub>, 78-10-4  
Tetramethylammonium fluoride, (CH<sub>3</sub>)<sub>4</sub>NF, 373-68-2  
Tetramethylorthosilicate, 681-84-5  
Tetraphenyl arsonium chloride, C<sub>24</sub>H<sub>20</sub>AsCl, 507-28-8  
Tetraphenyl tin, C<sub>24</sub>H<sub>20</sub>Sn, 595-90-4  
Thallium (III) acetate, (CH<sub>3</sub>COO)<sub>3</sub>Tl, 2570-63-0  
Thallium (III) trifluoroacetate, Tl(C<sub>2</sub>O<sub>2</sub>F<sub>3</sub>)<sub>3</sub>, 23586-53-0  
Thiocarbazine, CH<sub>6</sub>N<sub>4</sub>S, 2231-57-4  
Thulium acetylacetonate, TmC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>·3H<sub>2</sub>O, 14589-44-7  
Thulium oxide, O<sub>3</sub>Tm<sub>2</sub>, 12036-44-1  
Thulium tris(2,2,6,6-tetramethyl-3,5-heptanedionato), 15631-58-0  
Tin (II) acetate, Sn(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>, 638-39-1  
Tin (IV) acetate, Sn(CH<sub>3</sub>CO<sub>2</sub>)<sub>4</sub>, 2800-96-6  
Tin (IV) isopropoxide, Sn(OCH(CH<sub>3</sub>)<sub>2</sub>)<sub>4</sub>, 546-68-9  
Tin sulfate, SnSO<sub>4</sub>, 7488-55-3  
Titanium (IV) butoxide, Ti(CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>O)<sub>4</sub>, 5593-70-4  
Titanium (IV) methoxide, Ti(OCH<sub>3</sub>)<sub>4</sub>, 992-92-7  
Titanium dioxide, TiO<sub>2</sub>, 13463-67-7  
Titanium nitride, TiN, 25583-20-4  
Titanium sulfate, Ti(SO<sub>4</sub>)<sub>2</sub>, 27960-69-6  
trans-Phenylethenylboronic acid, C<sub>8</sub>H<sub>9</sub>BO<sub>2</sub>, [6783-05-7]  
Tributyltin acetate, Sn(C<sub>4</sub>H<sub>9</sub>)<sub>3</sub>OOCCH<sub>3</sub>, 56-36-0  
Tris(ethylenediamine) iron (III) sulfate, [Fe(H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>)<sub>3</sub>]<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>  
Tris(triphenylphosphine)rhodium(i) chloride, Rh((C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P)<sub>3</sub>Cl, 14694-95-2  
Tungsten (VI) oxide, WO<sub>3</sub>, 1314-35-8  
Tungsten hexacarbonyl, 14040-11-0

Tungsten sulfide, WS<sub>2</sub>, 12138-09-9  
Tungstic acid, H<sub>2</sub>O<sub>4</sub>W, 2148783  
Uranyl acetate, 541-09-3  
Urea, (NH<sub>2</sub>)<sub>2</sub>CO, 57-13-6  
Vanadyl sulfate, O<sub>5</sub>SV, 27774-13-6  
Water, deionized, H<sub>2</sub>O, 7732-18-5  
Yttrium acetylacetonate, YbC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 15554-47-9  
Ytterbium 2-ethylhexanoate, Yb[OOCCH(C<sub>2</sub>H<sub>5</sub>)C<sub>4</sub>H<sub>9</sub>]<sub>3</sub>  
Ytterbium acetylacetonate, YbC<sub>15</sub>H<sub>21</sub>O<sub>6</sub>, 14284-88-9  
Ytterbium hexafluoroacetylacetonate, YbC<sub>15</sub>H<sub>3</sub>F<sub>18</sub>O<sub>6</sub>, 81849-60-7  
Ytterbium oxide, O<sub>3</sub>Yb<sub>2</sub>, 1314-37-0  
Ytterbium tris(trifluoromethylhydroxy-d-camphorato), 34830-11-0  
Ytterbium(III) carbonate, Yb<sub>2</sub>C<sub>3</sub>O<sub>9</sub>, 5895-52-3  
Ytterbium(III) trioxalate, Yb<sub>2</sub>C<sub>6</sub>O<sub>12</sub>, 51373-68-3  
Yttrium 2-ethylhexanoate, Y[OOCCH(C<sub>2</sub>H<sub>5</sub>)C<sub>4</sub>H<sub>9</sub>]<sub>3</sub>, 103470-68-4  
Yttrium acetate tetrahydrate, Y(CH<sub>3</sub>COO)<sub>3</sub>.4H<sub>2</sub>O, 23363-14-6  
Yttrium barium copper oxide, YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>, 107539-20-8  
Yttrium carbonate, C<sub>3</sub>H<sub>6</sub>O<sub>12</sub>Y<sub>2</sub>, 5970-44-5  
Yttrium oxide, Y<sub>2</sub>O<sub>3</sub>, 1314-36-9  
Zinc acetate dihydrate, Zn(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>2</sub>.2H<sub>2</sub>O, 5970-45-6  
Zinc chloride, ZnCl<sub>2</sub>, 7646-85-7  
Zinc nitrate hexahydrate, Zn(NO<sub>3</sub>)<sub>2</sub>.6H<sub>2</sub>O, 10196-18-6  
Zinc phosphate, Zn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>, 7779-90-0  
Zinc sulfate heptahydrate, ZnSO<sub>4</sub>.7H<sub>2</sub>O, 7446-20-0  
Zinc sulfide, ZnS, 1314-98-3  
Zinc titanate, ZnTiO<sub>3</sub>, 12036-69-0  
Zinc trifluoromethanesulfonate, (CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub>Zn, 54010-75-2  
Zinc tungstate, ZnWO<sub>4</sub>, 13597-56-3  
Zirconium (IV) carbonate basic hydrate, 2ZrO<sub>2</sub>.CO<sub>2</sub>.xH<sub>2</sub>O, 13520-92-8  
Zirconium silicate, ZrSiO<sub>4</sub>, 10101-52-7  
Zirconium sulfate, Zr(SO<sub>4</sub>)<sub>2</sub>, 19696-82-3