

COMPOUNDS WITH UNUSUAL OR TRIVIAL NAMES (INORGANIC)

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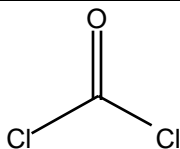
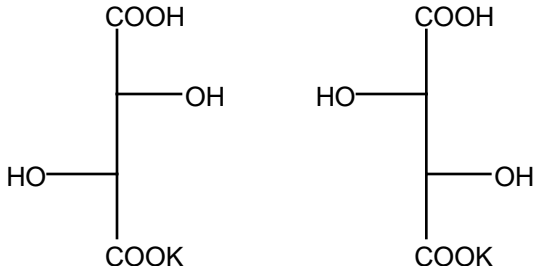
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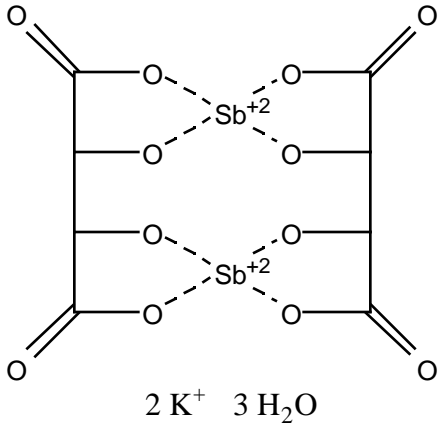
For suggestions, corrections, additional information, and comments please send e-mails to jandraos@yorku.ca

<http://www.chem.yorku.ca/NAMED/>

Names Based on Characteristics or Properties

NAME OF COMPOUND	CAS NUMBER	Characteristic or Property	Structure
Borax	1303-96-4	Arabic: <i>būraq</i> Contains boron	Na ₂ B ₄ O ₇ · 10 H ₂ O
Cacodylic acid	75-60-5	Gk: kakodes, Ill smelling	$ \begin{array}{c} \text{O} \\ \\ \text{CH}_3 - \text{As} - \text{OH} \\ \\ \text{CH}_3 \end{array} $
Caustic alcohol	141-52-6	Strongly alkaline, corrosive	NaOEt
Caustic antimony (butter of antimony)	10025-91-9	corrosive	SbCl ₃
Caustic potash	1310-58-3	Strongly alkaline, Corrosive	KOH
Caustic soda	1310-73-2	corrosive	NaOH
Dry ice	124-38-9	Cold; Evaporates without leaving any wetness	CO ₂
Freezing salt	7647-14-5	Used as a preserva-tive	NaCl
Fulminating mercury	92114-96-0	Latin: <i>fulminatus</i> (thundebolt, lightning) explosive	Hg(CNO) ₂
Glass liquor	104841-85-2		Na ₂ Si ₄ O ₉
Heavy hydrogen	7782-39-0	Heavier isotope of hydrogen	D ₂

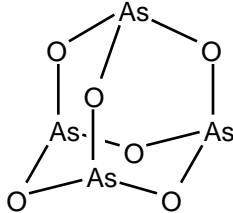
Heavy water	7789-20-0	Heavier isotope of hydrogen	D ₂ O
Hepar calcis	12015-71-3	Latin: Liver stone	CaS (oldhamite)
Hepatic gas	7783-06-4	Related to liver	H ₂ S
Ice stone	15096-52-3	Found in Greenland	AlF ₃ 3 NaF (cryolite) Na ₃ AlF ₆
Iron mordant	10028-22-5	Used as a mordant for dyes	Fe ₂ (SO ₄) ₃
Liquid arsenic, fuming	7784-34-1	fumes	AsCl ₃
Meat salt	12125-01-8		NH ₄ F
Mild alkali	497-19-8	Weakly basic	Na ₂ CO ₃
Mild lime	14791-73-2	Weakly basic	CaCO ₃ (aragonite)
Mordant salt (printer's acetate, printer's salt)	142-03-0	Used as a mordant for dyes	Al(OH)(OAc) ₂
Natron	497-19-8	Contains sodium	Na ₂ CO ₃
Paper maker's alum	10043-01-3		Al ₂ (SO ₄) ₃ 18 H ₂ O
Phosgene	75-44-5	Generated by photolysis of CO and HCl	
Phosphate rock	7758-87-4	Contains phosphate	Ca ₃ (PO ₄) ₂
Plumbo	1314-41-6	Contains lead (Latin for <i>plumbum</i>)	Pb ₃ O ₄ (minium)
Polishing powder	1317-45-9		SnO ₂ (cassiterite)
Potash	584-08-7	Contains potassium	K ₂ CO ₃
Potash caustic Potash lye	1310-58-3	Contains potassium, corrosive	KOH
Potash alum	10043-67-1	Contains potassium	Al ₂ (SO ₄) ₃ K ₂ SO ₄ 24 H ₂ O
Putty powder			SnO ₂ (cassiterite)
Rock crystal	14808-60-7	crystalline	SiO ₂ (quartz)
Soluble tartar	868-14-4	Soluble in aqueous solution	

Stibiatic tartar	28300-74-5	Contains antimony (Latin for <i>stibium</i>)	 <p style="text-align: center;">$2 K^+ 3 H_2O$</p>
Sugar of lead	301-04-2	Tastes sweet (but poisonous)	$Pb(OAc)_2$
Sulfuret	12015-71-3	Contains sulfur	CaS (oldhamite)
Sulfuretted hydrogen	7783-06-4	Contains sulfur	H ₂ S
Table salt	7647-14-5	Served at the dining table	NaCl
Tasteless salt	7558-80-7	Has no taste	NaH ₂ PO ₄ H ₂ O
Wool mordant	10101-53-8 10031-37-5	Used as a mordant to dye wool	Cr ₂ (SO ₄) ₃ , Cr ₂ (SO ₄) ₃ 15 H ₂ O, Cr ₂ (SO ₄) ₃ 18 H ₂ O

Name Based on Colour

NAME OF COMPOUND	CAS NUMBER	Colour	Structure
Aurora orange (orange cadmium)	1317-58-4	Orange	CdS (greenockite)
Aurora yellow (jaune brilliant, Orient yellow)	1317-58-4	Yellow	CdS (greenockite)
Azurite (Brunswick)	1319-45-5	Blue	2 CuCO ₃ Cu(OH) ₂
Blue John (Derbyshire spar)	14542-23-5	Blue	CaF ₂
Blue salts	7786-81-4	Blue	NiSO ₄ 6 H ₂ O
Blue stone Blue vitriol	7758-98-7	Blue	CuSO ₄ 5 H ₂ O
Buttercup yellow (Citron yellow)	13530-65-9	Yellow	ZnCrO ₄
Chrome green	1308-38-9	Green	Cr ₂ O ₃
Chrome red (Derby red Chinese red)	1344-38-3	Red	PbCrO ₄ PbO
Emerald green	12000-21-	Green	[CuO As ₂ O ₃] ₃ Cu(OAc) ₂

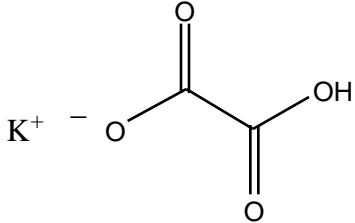
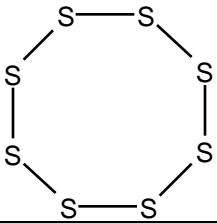
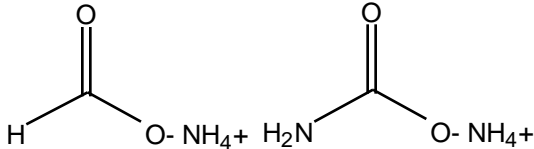
(Paris green, Imperial green, Kaiser green, King's green, Meadow green, Mitis green, Moss green, new green, parrot green, Patgreen, Vert de Mitis, Vert de Vienne, Vienna green)	4 12002-03-8		
Fusible white precipitate	129036-35-7 12125-01-8	White	Hg ₂ NCl 3 NH ₄ Cl
Green vitriol	7720-78-7	Green	FeSO ₄ 7 H ₂ O
Indian red (jeweler's rouge, kidney ore)	1317-60-8	Red	Fe ₂ O ₃ (hematite)
King's gold King's yellow	12255-89-9	Yellow	As ₂ S ₃ (orpiment)
King's yellow (lemon yellow)	14654-05-8	Yellow	PbCrO ₄ (crocoite)
Lead white	1319-47-7	White	2 PbCO ₃ Pb(OH) ₂ (hydrocerussite)
Lemon chrome	10294-40-8	Yellow	BaCrO ₄
Magnesia white	13717-00-5 1317-74-4	White	MgCO ₃ (magnesite) or MgO (periclase)
Manganese black	12209-34-6	Black	MnO ₂ (pyrolusite, polianite)
Manganese green	1344-43-0	Green	MnO
Mineral green	1345-20-6 1319-45-5	Green	CuHAsO ₃ (Scheele's green) or 2CuCO ₃ Cu(OH) ₂ (azurite, Brunswick)
Mineral orange	1314-41-6	Orange	Pb ₃ O ₄ (minium)
Mineral white	7727-43-7	White	BaSO ₄ (barite)
Mosaic gold	1315-01-1	Gold	SnS ₂
Mountain green (Brunswick)	1319-45-5	Green	2CuCO ₃ Cu(OH) ₂ (azurite)
Nickel black	1314-06-3	Black	Ni ₂ O ₃
Oil green	1308-38-9	Green	Cr ₂ O ₃
Permanent white	7727-43-7	White	BaSO ₄ (barite)
Pink salt	16960-53-5	Pink	(NH ₄) ₂ [SnCl ₆]
Pure scarlet	7774-29-0	Red	HgI ₂
Purple salt	7722-64-8	Purple	KMnO ₄
Quicksilver vermilion	1344-48-5	Red	HgS (cinnabar)
Red arsenic glass	193095-	Red	As ₂ S ₂ (realgar)

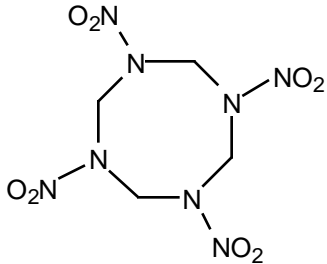
	24-8		
Red copper oxide	1308-76-5	Red	Cu ₂ O (cuprite)
Red iron oxide Red oxide Red stone	1317-60-8	Red	Fe ₂ O ₃ (hematite)
Red lead	1314-41-6	Red	Pb ₃ O ₄ (minium)
Red oxide of mercury Red precipitate	24401-75-0 21908-53-2	Red	HgO (montroydite)
Red prussiate of potash	13746-66-2	Red	K ₃ [Fe(CN) ₆]
Rose vitriol	24250-37-1	Rose	CoSO ₄ 7 H ₂ O (bieberite)
Ruby arsenic		Red	As ₂ S ₂ (realgar)
Saturn red	1314-41-6	Red	Pb ₃ O ₄ (minium)
Spanish white Spanish whiting	13397-26-7	White	BiONO ₃ H ₂ O or CaCO ₃ (calcite)
Tungsten white	7787-42-0	White	BaWO ₄
Ultramarine yellow	10294-40-8	Yellow	BaCrO ₄
Verdigris, blue or green	8007-61-2	Blue Green	Cu(OAc) ₂ CuO 6 H ₂ O
Vermilion	19122-79-3 1344-48-5	Red	HgS (cinnabar)
White alkali (soda ash)	497-19-8	White	Na ₂ CO ₃
White arsenic	1303-24-8 12505-67-8	White	As ₂ O ₃ (arsenolite) 
White caustic	1310-73-2	White	NaOH
White copperas	15491-15-3	White	ZnSO ₄ 7 H ₂ O (goslarite)
White lead	1319-47-7	White	2 PbCO ₃ Pb(OH) ₂ (hydrocerussite)
White lead, sublimed	1314-57-4	White	PbSO ₄ PbO (lanarkite)
White precipitate, fusible	129036-35-7 12125-01-8	White	Hg ₂ NCI 3 NH ₄ CI
White precipitate, infusible	129036-35-7 12125-01-8	White	Hg ₂ NCI NH ₄ CI
White vitriol	15491-15-3	White	ZnSO ₄ 7 H ₂ O (goslarite)

Yellow lead oxide	1317-36-8	Yellow	PbO (litharge)
Yellow precipitate	24401-75-0	Yellow	(NH ₄) ₃ [P(Mo ₃ O ₁₀) ₄] 3 H ₂ O or HgO (montroydite)
Yellow prussiate of potash	13943-58-3	Yellow	K ₄ [Fe(CN) ₆] 3 H ₂ O
Zinc white	1314-13-2	White	ZnO
Zinc yellow	13530-65-9	Yellow	ZnCrO ₄

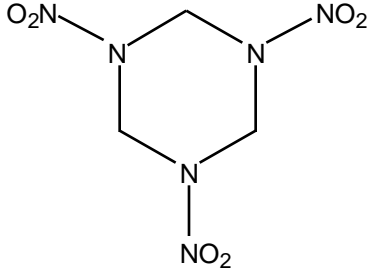
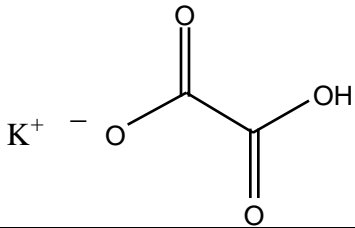
Miscellaneous Names

NAME OF COMPOUND	CAS NUMBER	Origin	Structure
Aqua fortis	7697-37-2	Latin: Strong water	HNO ₃
Aqua regia	8007-56-5	Latin: Queen of water	HNO ₃ : HCl (3 parts 70% HNO ₃ + 1 part 37% HCl by volume)
Baking soda	144-55-8	Used as a leavening agent in baking	NaHCO ₃
Battery acid	7664-93-9	Used in batteries	H ₂ SO ₄
Battery manganese	1313-13-9	Used as electrode in batteries	MnO ₂
Blanc de perle (Blanc d'Espagne)	7787-59-9	French: White of pearl White of Spain	BiOCl
Blanc fixe (fixed white)	7727-43-7	French: Fixed white	BaSO ₄
Brimstone	7704-34-9	Middle English: <i>brinston</i> , <i>birnen + ston</i> (Burning stone)	S (amorphous)
Butter of antimony (mineral butter)	10025-91-9		SbCl ₃
Butter of arsenic	7784-34-1		AsCl ₃
Caput mortum	1309-37-1	Latin: Dead head	Fe ₂ O ₃
Cat's eye (horn stone)	24458-74-0		SiO ₂ x H ₂ O (opal)
Cinnabar	1344-48-5	Latin: <i>cinnabaris</i> Arabic: <i>zinjafir</i>	HgS
Common salt	7647-14-5		NaCl
Copperas	7720-78-7	Latin: <i>cuprirosa</i> , <i>cuprum + rosa</i>	FeSO ₄ 7 H ₂ O
Dental gas	10024-97-	Used as	N ₂ O

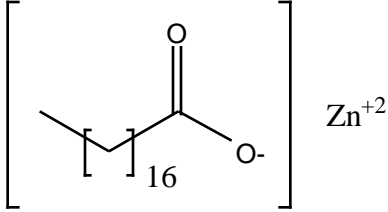
(laughing gas)	2	anesthetic in dentistry	
Essential salt of lemon	127-95-7		
Fixed niter	584-08-7		K ₂ CO ₃
Floris martis	7705-08-0	Latin: Flowers of Mars	FeCl ₃ 6 H ₂ O
Flowers of antimony	1317-98-2		Sb ₂ O ₃ (valentinite)
Flowers of bismuth	1304-76-3		Bi ₂ O ₃
Flowers of sulfur	10544-50-8		S ₈ (monoclinic) 
Flowers of tin	1317-45-9		SnO ₂ (cassiterite)
Flowers of zinc	1314-13-2		ZnO
Fumarole acid	10043-35-3	Latin: <i>fumarium</i> Smoke chamber for aging wine	B(OH) ₃
Galena	1314-87-0	Latin: Lead ore	PbS
Glass maker's soap	1313-13-9		MnO ₂
Hahnem auris mercury	7546-30-7	Latin: <i>auris</i> (ears)	HgCl (calomel)
Hartshorn	1336-21-6	German: <i>hirschhorn-salz</i> Found in deer or stag horn	NH ₄ OH
Hartshorn salt	540-69-2 1111-78-0	German: <i>hirschhorn-salz</i> Found in deer or stag horn	
Horn silver	57030-43-0		AgCl (cerargyrite)

HMX (cyclotetra- methylene tetramintri- amine)	2691-41-0	High melting explosive	
HTH	7778-54-3		Ca(ClO) ₂ 4 H ₂ O
Hypo	7772-98-7		Na ₂ S ₂ O ₃ 5 H ₂ O
Iron vitriol	7720-78-7		FeSO ₄ 7 H ₂ O (copperas)
Jeweler's borax	1330-43-4		Na ₂ B ₄ O ₇ 10 H ₂ O
Kontrastin	1314-23-4		ZrO ₂
Koronium bromide	10476-81- 0		SrBr ₂ 6 H ₂ O
Krome flake	1333-82-0		CrO ₃ (chromic acid)
Kupfernickel	1303-13-5	German: Copper nickel	NiAs (nicollite)
Land plaster	13397-24- 5		CaSO ₄ 2 H ₂ O (gypsum)
Lapis caustic	7778-50-9 1310-58-3	Latin: Burning stone	K ₂ Cr ₂ O ₇ or KOH
Lencogen	7631-90-5		NaHSO ₃
Lime, burnt	1305-78-8		CaO
Lime, quick	1305-78-8		CaO
Lime, slaked	1305-62-0		Ca(OH) ₂
Lime, sulfurated	12015-71- 3		CaS (oldhamite)
Lime, unslaked	1305-78-8		CaO
Lime saltpeter	10124-37- 5		Ca(NO ₃) ₂ 4 H ₂ O
Litharge	1317-36-8		PbO
Lithia	12057-24- 8	Contains lithium	Li ₂ O
Liver ore	19122-79- 3		HgS (cinnabar)
Lodestone	1309-38-2	Middle English: <i>lode</i> (course)	Fe ₃ O ₄ (magnetite)
Lunar caustic	7761-88-8	Latin: <i>luna</i> (silver, moon) burning silver	AgNO ₃
Lunar cornea	57030-43- 0	Latin: <i>luna</i> (silver, moon) <i>corneus</i> (horny)	AgCl (cerargyrite)
Lye	1310-73-2		NaOH
Magister of bismuth	10361-46- 3		BiONO ₃ H ₂ O
Malachite	1319-53-5	Latin, Greek:	CuCO ₃ Cu(OH) ₂

(Bremen green)	1319-45-5	<i>molochites</i> <i>molochitis</i> <i>moloche</i> (mallow)	
Manganese alum			$\text{Mn}_2(\text{SO}_4)_3 \cdot \text{K}_2\text{SO}_4 \cdot 24 \text{H}_2\text{O}$
Metso	3834-92-0		Na_2SiO_3
Microcosmic salt	13011-54-6		$\text{Na}[\text{NH}_4]\text{HPO}_4 \cdot 4 \text{H}_2\text{O}$
Mineral acid			
Mineral oil			
Muriatic acid	7647-01-0	French: <i>muriatique</i> Latin: <i>muriaticus</i> (pickled in brine)	HCl
Needle of antimony	1317-86-8		Sb_2S_3 (stibnite)
Nil alba	1314-13-2	Latin: White nothing	ZnO
Niter (saltpeter)	7757-79-1	Latin: <i>nitrium</i> Greek: <i>nitron</i> Natural soda used for washing	KNO_3
Niter cake	7681-38-1		NaHSO_4
Niton	10043-92-2	Latin: <i>nitere</i> (to shine); former symbol: Nt (1910 – 1915)	Rn
Oil of tartar	584-08-7		K_2CO_3
Oil of vitriol	7664-93-9		H_2SO_4
Oleum (pyrosulfuric acid)	7783-05-3	Latin: oil	$\text{H}_2\text{S}_2\text{O}_7$
Ozogen	7722-84-1		H_2O_2
Pearl ash	584-08-7	Usage: 1720 - 1730	K_2CO_3
Philosopher's wool	1314-13-2	Akin to philosopher's stone (alchemy): a substance sought by alchemists that was able to transmute baser metals to gold or silver	ZnO
Pickle alum	10043-01-3		$\text{Al}_2(\text{SO}_4)_3$
Pickling acid	7664-93-9		H_2SO_4
Pitchblende	1344-59-8	German	U_3O_8

		<i>pechblende</i> (black blend)	
Plumbago	7782-42-5	Latin: Related to lead; used in making pencil leads	C (graphite)
Quicklime	1305-78-8	First solid product obtained by calcining limestone	CaO
Quicksilver	7439-97-6	Old English: <i>cwicseolfor</i> Middle English: <i>qwyksilver</i> Latin: <i>Argentum vivum</i> (living silver) Latin: <i>hydragyrum</i> = liquid silver	Hg
Rock salt	7647-14-5		NaCl
Roman vitriol (blue vitriol)	13817-21-5	Latin: <i>vitreolum</i> (glassy)	CuSO ₄ 5 H ₂ O (chalcanthite)
RDX (cyclonite)	121-82-4	Research Develop-ment Explosive	
Rutile	1317-80-2	Latin: <i>rutilus</i> (reddish)	TiO ₂
Sal acetosellae Salt of lemon Salt of sorrel	127-95-7		
Sal amarum Sal catharticum	14457-55-7	Latin: Bitter salt Laxative salt	MgSO ₄ 7 H ₂ O (epsomite)
Sal ammoniac Salimac	12125-01-8	Latin: Salt of ammonia	NH ₄ Cl
Sal chalybdis	7720-78-7	Latin: salt of steel	FeSO ₄ 7 H ₂ O (copperas)
Sal culinaris		Latin: cooking salt	NaCl
Sal de duobus Sal polychrestum Salt of lemercy Salt of Venus	14293-72-2		K ₂ SO ₄ (arcanite)

Sal enixium	7646-93-7	Latin: Strenuous salt	KHSO ₄
Saleratus	144-55-8	Latin: Aerated salt (forms CO ₂)	NaHCO ₃
Sal prunella	7757-79-1	Latin: Salt French: <i>prunelle</i> (a heavy woolen fabric used for the uppers of shoes)	KNO ₃ (saltpeter)
Sal soda	497-19-8	Latin: Salt of barilla plant	Na ₂ CO ₃ 10 H ₂ O
Sal vegetal	921-53-9	Latin: Vegetable or plant salt	<p style="text-align: center;">1/2 H₂O</p>
Sal volatile	12125-01-8 506-87-6	Latin: Volatile salt	NH ₄ Cl or (NH ₄) ₂ CO ₃ H ₂ O
Salt cake	13759-07-4		Na ₂ SO ₄ (thenardite)
Salt of hartshorn	506-87-6	German: <i>hirschhorn-salz</i> (salt from deer horn)	(NH ₄) ₂ CO ₃ H ₂ O
Salt of phosphorus	13011-54-6		Na(NH ₄)HPO ₄ 4 H ₂ O
Salt of Saturn	301-04-2		Pb(OAc) ₂ 3 H ₂ O
Salt of soda	12125-01-8		Na ₂ CO ₃ or Na ₂ CO ₃ H ₂ O or Na ₂ CO ₃ 7 H ₂ O or Na ₂ CO ₃ 10 H ₂ O
Salt of tin	7772-99-8		SnCl ₂ 2 H ₂ O
Salt of vitriol	15491-15-3		ZnSO ₄ 7 H ₂ O (goslarite)
Saltpeter Saltpeter, Bengal	7757-79-1	Latin: Sal petrae (salt of the rock)	KNO ₃
Saltpeter, Chile	7631-99-4		NaNO ₃
Saltpeter, lime Saltpeter, Norwegian Saltpeter, rot Saltpeter, wall	10124-37-5		Ca(NO ₃) ₂ 4 H ₂ O
Saltpeter, Norway	6484-52-2		NH ₄ NO ₃

Salufer	16893-85-9		Na ₂ SiF ₆
Sand acid	16961-83-4	Found in sand	H ₂ SiF ₆
Single nickel salt	7786-81-4		NiSO ₄ 6 H ₂ O
Soap dust Zinc stearate	557-05-1	French: <i>stearique</i> Greek: <i>stear</i> (tallow)	
Soda, baking	144-55-8		NaHCO ₃
Soda, caustic Soda lye	1310-73-2		NaOH
Soda, washing Soda crystals	12125-01-8		Na ₂ CO ₃ 10 H ₂ O
Soda alum	10102-71-3		Al ₂ (SO ₄) ₃ Na ₂ SO ₄ 24 H ₂ O
Soda ash (natron)	12125-01-8		Na ₂ CO ₃
Soda niter Soda niter saliter Soda saltpetret	7631-99-4		NaNO ₃
Sodamide	7782-92-5		NaNH ₂
Spinel	1302-67-6	Italian: <i>spinella</i> (thorn)	MgO Al ₂ O ₃
Spirit of salt	7647-01-0		HCl
Talcum powder	12027-99-5	Middle Latin: <i>talcum</i> Arabic: <i>talq</i>	Mg ₃ Si ₄ O ₁₁ H ₂ O
Tarcanum sal de duobus	14293-72-2		K ₂ SO ₄ (arcanite)
Terra alba	13397-24-5	Latin: White earth	CaSO ₄ 2 H ₂ O (gypsum)
Tiff	7727-43-7		BaSO ₄ (barite)
Tin ash			SnO ₂ (cassiterite)
Tin crystals Tin salt	7772-99-8		SnCl ₂ 2 H ₂ O
Trona	15243-87-5	Swedish	Na ₃ H(CO ₃) ₂ 2 H ₂ O
TSP	10101-89-0	Trisodium phosphate	Na ₃ PO ₄ 12 H ₂ O
TSPP	7722-88-5	Tetra-sodium Pyro- Phosphate	Na ₄ P ₂ O ₇
Turpeth	1312-03-4	Middle Latin: <i>turpethum</i> Sanskrit: <i>triputa</i>	HgSO ₄ 2 HgO

		Arabic: <i>turbid</i>	
Tutia	3486-35-9		ZnCO ₃
Venus crystals	142-71-2	Venus is related to the colour green	Cu(OAc) ₂ H ₂ O
Vitriol	7664-93-9	Latin: <i>vitreolum</i> (glassy)	H ₂ SO ₄
Zinc blende	1314-98-3		ZnS
Zinc chrome	13530-65-9		ZnCrO ₄
Zinc powder	1314-13-2		ZnO
Zinc vitriol	15491-15-3 7733-02-0		ZnSO ₄ 7 H ₂ O (goslarite)

References:

Lange, Norbert A. *Handbook of Chemistry*, McGraw-Hill Book Co., Inc.: New York, 1961

Flexner, Stuart B. (ed.) *The Random House Dictionary of the English Language*, 2nd ed., Random House: NY, 1987

Wolf, Henry B. (ed.) *Webster's New Collegiate Dictionary*, Thomas Allen & Son, Ltd.: Toronto, 1976

Simpson, D.P. (ed.) *Cassell's New Latin Dictionary*, Funk & Wagnalls: NY, 1968