

Chemical list

AR Grade

Chemical code	Chemical name	Molecular formula
A		
A-2	Ammonium Sulfate	$(\text{NH}_4)_2\text{SO}_4$
A-3	L-Ascorbic acid	$\text{C}_6\text{H}_8\text{O}_6$
A-7	Ammonium Chloride	NH_4Cl
A-8	Ammonium iron (II) sulfate	$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
A-10	Ammonium citrate dibasic	$(\text{NH}_4)_2\text{C}_6\text{H}_6\text{O}_7$
A-14	Ammonium thiocyanate	NH_4SCN
A-17	Aluminum oxide 90	Al_2O_3
A-19	Acrylamide foe electrophoresis	$\text{CH}_2\text{CHCONH}_2$
A-21	Activated charcoal	
A-22	1-amino-2-hydroxynaphthalin-4-sulfonic acid	$\text{C}_{10}\text{H}_9\text{NO}_4\text{S}$
A-23	Aluminum potassium sulfate	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
A-24	Ammonium meta vanadate	NH_4VO_3
A-25	Amylose from potato	
A-32	L (+) Ascorbic acid sodium salt	$\text{C}_6\text{H}_7\text{NaO}_6$
A-33	8-anilino-1naphthalene sulfonic acid	
A-34	Avicel PH-101	
A-35	4-Aminobenzoic acid	$\text{C}_7\text{H}_7\text{NO}_3$
B		
B-2	Benzoic acid	$\text{C}_6\text{H}_5\text{COOH}$
B-6	Barium hydroxide	$\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$
B-7	di-sodium tetraborate decahydrate	$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
B-9	Bispyrazolone	$\text{C}_{20}\text{H}_{18}\text{N}_4\text{O}_2$
B-12	6-Benzylaminopurine	$\text{C}_{12}\text{H}_{11}\text{N}_5$
C		
C-1	Calcium chloride dehydrate	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
C-3	Cobalt (II) sulfate	$\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$
C-4/1	Calcium carbonate	CaCO_3
C-5	Cupper (II) sulfat	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

C-6	2,6 dichlorophenolindo-phenol sodium salt dihydrate	$C_{12}H_6Cl_2NNaO_2 \cdot 2H_2O$
C-7	Calcium hydroxide	$Ca(OH)_2$
C-8	Citric acid	$C_6H_8O_7 \cdot H_2O$
C-9	Calcium acetate	$(CH_3COO)_2Ca \cdot H_2O$
C-10	Calcium sulfate	$CaSO_4 \cdot 2H_2O$
C-11	Carboxymethylcellulose sodium salt	
C-12	L-cysteine	$C_3H_7NO_2S$
C-14	Coomassie Brilliant Blue R250	
C-15	Coomassie Brilliant Blue G250	
C-16	Catechol	$C_6H_6O_2$
C-18	Copper (II) nitrate trihydrate	$Cu(NO_3)_2 \cdot 3H_2O$
C-19	Cobalt (II) acetate tetrahydrate	$(CH_3COO)_2Co \cdot 4H_2O$
C-20	Cinnamic acid	
C-24	Casein acc. to hammarsten	
C-25	Carrageenan AR	
C-26	Celite545	
C-27	Chlorogenic acid	$C_{16}H_{18}O_9$
C-29	Alpha cellulose	
C-30	Calcium gluconate monohydrate	$C_{12}H_{22}CaO_{14} \cdot XH_2O$
C-31/1	Casein	
D		
D-2	Dimethylglyoxime (2,3 – Butane dionedioxime)	$C_4H_8N_2O_2$
D-7	Deoxycholic acid (sodium deoxycholate)	$C_{24}H_{39}O_4Na$
D-8	1,5 Diphenylcarbazone	$C_{13}H_{12}N_4O$
D-9	5,5 Dithiobis (2-nitrobenzoic acid)	
E		
E-1	EDTA (ethylene diamine tetraacetic acid disodium salt)	
E-2	EGTA (ethylene glycol-bis[B-aminoethyl ether]N,N,N N tetraacetic acid)	$C_{14}H_{24}O_{10}$
E-3	Esculin hydrate	
F		
F-1	Iron (II) sulfate heptahydrate	$FeSO_4 \cdot 7H_2O$

F-2	Iron(II) chloride tetrahydrate (Ferrous chloride)	$\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$
F3/1	Iron(III)chloride hexahydrate	$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$
F-5	Iron(III) phosphate	$\text{FePO}_4 \cdot 4\text{H}_2\text{O}$
F-6	Iron(III) citrate	$\text{FeC}_6\text{H}_5\text{O}_7 \cdot n\text{H}_2\text{O}$
G		
G-1	Glucose anhydrous	$\text{C}_6\text{H}_{12}\text{O}_6$
G-2	Glycine	$\text{C}_2\text{H}_5\text{NO}_2$
G-6	D-Gluconolactone (gluconic acid lactone)	$\text{C}_6\text{H}_{10}\text{O}_6$
G-7	L-glutamic acid	$\text{C}_5\text{H}_9\text{NO}_4$
G-8	D(+) galactose	$\text{C}_6\text{H}_{12}\text{O}_6$
G-9	Gelatin เตรียมอาหารเลี้ยงเชื้อ MG-1	
G-14	Glycerol 2-phosphate disodium salt	$\text{C}_3\text{H}_7\text{Na}_2\text{O}_6\text{P}$
H		
H-2	4-Hexylresorcin	$\text{C}_{12}\text{H}_{18}\text{O}_2$
H-3	trans-4-hydroxy – l- proline	$\text{C}_5\text{H}_9\text{NO}_3$
H-5	p- Hydroxybenzoic acid n-butyl ester	
H-7	Hydrazinium sulphate	$\text{NH}_2\text{NH}_2\text{H}_2\text{SO}_4$
I		
I-1	Iodine resublimed	I_2
ID (Indicator and dye)		
ID-1	Calcine metal	$\text{C}_{30}\text{H}_{26}\text{N}_2\text{O}_{13}$
ID-4	Ninhydrin	
ID-5	Calconcarboxylic acid metal	$\text{C}_{21}\text{H}_{14}\text{N}_2\text{O}_7\text{S} \cdot 3\text{H}_2\text{O}$
ID-6	Methyl red	$\text{C}_{15}\text{H}_{15}\text{N}_3\text{O}_2$
ID-7	Phenolphthalein	$\text{C}_{20}\text{H}_{14}\text{O}_4$
ID-9	Methyl orange	
ID-10	Safanin O	
ID-13	Resazurine	$\text{C}_{12}\text{H}_6\text{NNaO}_4$
ID-14	Murexide	$\text{C}_8\text{H}_8\text{N}_6\text{O}_6$

ID-17	Bromophenol blue	$C_{20}H_{17}N_3Na_2O_9S_3$
ID-18	Thymolblue	$C_{27}H_{30}O_5S$
ID-19	Ferroun indicator solution	
ID-20	Bromothymol Blue	$C_{27}H_{18}Br_2O_5S$
ID-21	Diphenylcarbaid	$C_{13}H_{14}N_4O$
ID-22	8 -Anlino-1-naphthalene-sulfonic acid	
ID-23	Methyl green	$C_{27}H_{35}Cl_2N_3 \cdot ZnCl_2$
ID-24	Parafuchsin hydrochloride	$C_{19}H_{18}ClN_3$
ID-25	Fuchsin (for Microscopy) (Basic fuchsin)	$C_{20}H_{20}ClN_3$
ID-26	Azure B Cerlified	
ID-27	Azure II Eosin	
ID-29	2,7 dichloro Fluorescein	$C_{20}H_{10}Cl_2O_5$
ID-31	Methyl violet	
ID-34	Xylene cyanol	
K		
K-1	Kiesegur 60 G	
L		
L-1	Lead (II)acetaed trihydrate	$(CH_3COO)_2Pb \cdot 3H_2O$
L-2	Lactose monohydrate	$C_{12}H_{22}O_{11}H_2O$
L-3	Lauryl sulfate (SDS)	$C_{12}H_{25}O_4SNa$
L-4	L-Lysine monohydrochloride	$C_6H_{14}N_2O_2 \cdot HCl$
L-5	Lanthanum(III)oxide	La_2O_3
L-11	N-Laurylsarcosine	
M		
M-1	Magnesium sulfate heptahydrate	$MgSO_4 \cdot 7H_2O$
M-2	Manganese (II) sulfate monohydrate	$MnSO_4 \cdot H_2O$
M-3	Magnesium oxide	MgO
M-4	Mercury (II) jodid red	$HgJ_2 \cdot HgI_2$

M-5	Magnesium chloride	$MgCl_2 \cdot 6H_2O$
M-6	N,N-methylene-bis-acrylamide for electrophoresis	$C_7H_{10}N_2O_2$
M-8	Mercury(II)nitrate	$Hg(NO_3)_2 \cdot H_2O$
M-11	Malic acid	$C_4H_6O_5$
M-15	Maltose monohydrate for biochem เตรียมอาหารดู MM-3	$C_{12}H_{22}O_{11} \cdot H_2O$
M-16	D(+) mannose	$C_6H_{12}O_6$
M-18	3-Methyl-1-phenyl-2-pyrazolin-5	$C_{10}H_{10}N_2O$
M-20	Manganese (II) chloride	$MnCl_2 \cdot 4H_2O$
M-23	Myo-Inositol	$C_6H_{12}O_6$
N		
N-1	N-(1-Naphthyl)-ethylenediamine dihydrochloride	$C_{12}H_{16}Cl_2N_2$
N-3	2-Nitrophenol	$C_6H_5NO_3$
N-6	Narigin	$C_{27}H_{32}O_{14}$
N-7	1-Naphthol(a-Naphthol)	
O		
O-1	Oxalic acid	$(COOH)_2 \cdot 2H_2O$
P		
P-1	Potassium Hydroxide	KOH
P-2	Potassium sodium tartrate	$COOK(CHOH)_2COONa$.
P-3	Potassium chromate	K_2CrO_4
P-6	Potassium chloride	KCl
P-9	Potassium permanganate	$KMnO_4$
P-10	Potassium sorbate	$KC_6H_7O_2$
P-11	Potassium iodate	KIO_3
P-12	Potassium iodide	KI
P-13	di-Potassium hydrogen phosphate-3-hydrate	$K_2HPO_4 \cdot 3H_2O$

P-14	meta-phosphoric acid	$(\text{HPO}_3)_n$
P-15	1,10-Phenanthroline (monohydrate)	$\text{C}_{12}\text{H}_8\text{N}_2\text{H}_2\text{O}$
P-16	Potassium (III) hexacyanoferrate	$\text{K}_3[\text{Fe}(\text{CN})_6]$
P-17	Potassium dichromate	$\text{K}_2\text{Cr}_2\text{O}_7$
P-18	Propyl gallate	$\text{C}_{10}\text{H}_{12}\text{O}_5$
P-19	Potassium nitrate	KNO_3
P-21	Potassium bromide	KBr
P-23	Potassium fluoride dihydrate	$\text{KF}_2\text{H}_2\text{O}$
P-25	Phenol	$\text{C}_6\text{H}_6\text{O}$
P-26	Potassium thiocyanate	KSCN
P-27	Potassium cyanide	KCN
P-28	Potassium hydrogen carbonate	KHCO_3
P-38	Palmitic acid	$\text{C}_{16}\text{H}_{32}\text{O}_2$
P-43	diphosphorus pentoxide	P_2O_5
P-44	Propionic acid	$\text{C}_3\text{H}_5\text{NaO}_2$
P-52	Polyethylene glycol 6000	
P-53	Potassium peroxodisulfate	$\text{K}_2\text{O}_8\text{S}_2$
P-54	1,4-Phenylenediammonium dichloride(Anal)	$\text{C}_6\text{H}_{10}\text{Cl}_2\text{N}_2$
P-55	Polyvinylpyrrolidone	$(\text{C}_6\text{H}_9\text{NO})_n$
S		
S-1	Sodium phosphate	Na_3PO_4
S-2	Sodium tungstate	$\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$
S-3	Sodium carbonate anhydrous	Na_2CO_3
S-4	Sodium nitrate	NaNO_2
S-5	Silver nitrate	AgNO_3
S-6	di- Sodium hydrogen phosphate anhydrous	Na_2HPO_4
S-6/1	di-sodium hydrogenphosphate-2-hydrate	$\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$

S-6/2	di-sodium hydrogenphosphate-7-hydrate	$\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$
S-6/3	di-sodium hydrogenphosphate-12-hydrate	$\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$
S-7	Sodium hydroxide	NaOH
S-9	Sodium nitrate	NaNO_3
S-10	Sodium metabisulfite(Sodium disulfite)	$\text{Na}_2\text{S}_2\text{O}_5$
S-12	Sodium oxalate	$(\text{COONa})_2$
S-13	Sodium thiosulfate pentahydrate	$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
S-14	tri-Sodium citrate	$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$
S-15	Sodium chloroacetate	$\text{C}_2\text{H}_2\text{ClN}_2\text{O}_2$
S-17	Sodium acetate	CH_3COONa
S-17/1	Sodium acetate trihydrate	$\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$
S-21	Sodium hydrogen carbonate (Sodium bicarbonate)	NaHCO_3
S-22	Sulfanilamide	$\text{C}_6\text{H}_8\text{N}_2\text{O}_2\text{S}$
S-23	Sodium benzoate	$\text{C}_7\text{H}_5\text{NaO}_2$
S-25	Sodium azide	NaN_3
S-26	Sodium chloride	NaCl
S-29	di-sodium tetraborate-10-hydrate (borax)	$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
S-30	Silver sulphate	Ag_2SO_4
S-31	tetra-sodium diphosphate decahydrate	$\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$
S-34	Sulfanilic acid	$\text{NH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H} \cdot \text{H}_2\text{O}$
S-37	Sodium arsenite	NaAsO_2
S-40	Sodium (meta) periodate	NaJO_4
S-41	Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
S-44	5-Sulfosalicylic acid	$\text{C}_7\text{H}_6\text{O}_6\text{S} \cdot 2\text{H}_2\text{O}$
S-45	Soda lime	

S-48	Succinic acid	$C_4H_6O_4$
S-49	Selenium reagent mixture (for the determination)	
S-52	Sodium lauryl sulphate(SDS)	$CH_3(CH_2)_{11}OSO_3Na$
T		
T-2	Thiobarbituric acid	$NHCOCH_2 CO.NHCS$
T-4	Thiamine chloride hydrochloride	$C_{12}H_{17}ClN_4OS.HCl$
T-5	Tungsto phosphoric acid hydrate	$H_3[P(W_3O_{10})_4] .xH_2O$
T-6	Tris (hydroxymethyl) aminomethane	$C_4H_{11}NO_3$
T-7	Thymol crytal	$C_{10}H_{14}O$
T-8	Thiourea	H_2NCSNH_2
T-9	Thidiazuron	
T-11	Thiabendazole	$C_{10}H_7N_3S$
T-14	Tannic acid	
T-15	Triethylene tetramine (GC)	$C_6H_{18}N_4$
T-16	Tryptophan	
U		
U-1	Uranyl acetate	$(CH_3COO)_2UO_2 .2H_2O$
X		
X-1	Xylose	
Z		
Z-2	Zinc acetate	$Zn(CH_3(CO))_2.2H_2O$
Z-3	Zinc staub	Zn
Z-4	Zinc chloride	$ZnCl_2$

Solvent

รหัสสาร	ชื่อสารเคมี	สูตรโมเลกุล
SA		
SA-1	Glacial acetic acid	CH_3COOH
SA-2	Ammonia Solution (Ammonium hydroxide)	NH_4OH
SA-3	Acetone	CH_3COCH_3
SA-6	n-Amylacetate	$C_7H_{14}O_2$

SB		
SB-1	1-Butanol (n-butylalcohol)	$\text{CH}_3(\text{CH}_2)_3\text{OH}$
SB-3	Bicinchoninic acid (BCA)	
SC		
SC-1	Chloroform	CHCl_3
SD		
SD-2	Diethylene triamine D1551GC	
SE		
SE-1	Absolute ethanol 99.5%	$\text{CH}_3\text{CH}_2\text{OH}$
SE-2	Ethyl acetate	$\text{C}_4\text{H}_8\text{O}_2$
SE-3	Ether	$\text{C}_4\text{H}_8\text{O}_2$
SE-4	Ethyl methyl ketone	$\text{CH}_3\text{COCH}_2\text{CH}_3$
SE-5	Eugenol	
SF		
SF-1	Formaldehyde	HCOH
SF-4	Formamide	CH_3NO
SG		
SG-1	Glycerol	$\text{C}_3\text{H}_8\text{O}_3$
SH		
SH-1	Hydrochloric acid	HCl
SH-3	Hexane	C_6H_{14}
SH-4	Cyclohexane	C_6H_{12}
SH-6	Hydroxylamide	
SI		
SI-2	Isooctane	C_8H_{18}
SL		
SL-2	Linoleic acid	
SM		
SM-1	Methanol	CH_3OH
SM-3	Sodium methylate solution	
SN		
SN-1	Nitric acid	HNO_3
SO		
SO-2	Olive oil	
SP		
SP-1	Perchloric acid	HClO_4

SP-2	Petroleum ether	
SP-4	Pyridine	C_5H_5N
SP-6	Ortho-phosphoric acid	H_3PO_4
SP-8	2-Propanol (IPA)	$CH_3CHOHCH_3$
SS		
SS-1	Sulfuric acid	H_2SO_4
SS-3	Sodium lactate 50%	
ST		
ST-2	Toluene	CH_3
ST-4	3-(triethoxysilyl)-propylamin	
ST-7	Tween 40	
ST-9	Tween 80	
ST-10	Triton x-100	$C_8H_{17}C_6H_4(OCH_2CH_2)_nOH$
SW		
SW-1	Wijs' reagent	

Commercial Grade

รหัสสาร	ชื่อสารเคมี	สูตรโมเลกุล
A-1/com	Ammonium monophosphate	$(NH_4)_3PO_4$
C-1/com	Calcium oxide	CaO
C-2/com	Copper (II) oxide	CuO
D-1/com	Diatomaceous earth	
L-1/com	Lead oxide	PbO
M-1/com	Magnesium chloride	$MgCl_2$
S-1/com	Sodium acetate	$C_2H_3NaO_2$
S-2/com	Sodium carbonate	Na_2CO_3
S-3/com	Sodium dichromate	$Na_2Cr_2O_7$
S-4/com	Sodium hydroxide	NaOH
S-5/com	Sodium tri polyphosphate	$Na_5P_3O_{10}$
Z-1/com	Zinc oxide	ZnO

Food Grade

รหัสสาร	ชื่อสารเคมี	สูตรโมเลกุล
B-1/food	Benzoic acid	$C_7H_6O_2$
C-1/food	Calcium carbonate	$CaCO_3$

C-2/food	Calcium chloride	CaCl_2
C-3/food	Carrageenan	
C-5/food	Citric acid	$\text{C}_6\text{H}_8\text{O}_7$
C-6/food	CMC	
G-2/food	Guar gum	
G-4/food	Glucono delta lactone	$\text{C}_6\text{H}_{10}\text{O}_6$
I-1/food	Inositol	$\text{C}_6\text{H}_{12}\text{O}_6$
M-1/food	Maltodextrin	$\text{C}_{6n}\text{H}_{(10n+2)}\text{O}_{(5n+1)}$
P-1/food	Pectin	
S-1/food	Sodium benzoate	$\text{C}_7\text{H}_5\text{NaO}_2$
S-2/food	Sodium bicarbonate	NaHCO_3
S-3/food	Sodium citrate (tri)	$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$
S-5/food	Sodium metabisulfite	$\text{Na}_2\text{S}_2\text{O}_5$
S-7/food	Sodium tripolyphosphate	$\text{Na}_5\text{P}_3\text{O}_{10}$
S-8/food	Tri Sodium phosphate	Na_3PO_4
S-9/food	Sodium acetate	$\text{C}_2\text{H}_3\text{NaO}_2$
S-10/food	Sodium ascorbate	$\text{C}_6\text{H}_7\text{O}_6\text{Na}$
T-3/food	Tartaric acid	$\text{C}_4\text{H}_6\text{O}_6$
W-1/food	Whey Protein	

Media

รหัสสาร	ชื่อสารเคมี
MA-1	Agar
ME-3	Extract of meat dry
MD-1	D(+) Glucose monohydrate (Dextrose)
ML-3	Lactose monohydrate for microbiology
MM-1	MIL-medium (LIM medium)
MM-2	Malt extrate
MP-2	Peptone
MP-6	Soytone
MP-7	Tryptone
MY-1	Yeast extract