

## Basic Chemicals

At the laboratory of the Faculty of Food Industry, the following list of basic chemicals will be prepared for the use

Code	Chemical name	Molecular formula
<b>A</b>		
A-2	Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$
A-3	L-Ascorbic a	$\text{C}_6\text{H}_8\text{O}_6$
A-4	di-Ammonium hydrogen phosphate	$(\text{NH}_4)_2\text{HPO}_4$
A-8	Ammonium iron (II) sulfate (Ferrous ammonium sulfate)	$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
A-10	di-Ammonium hydrogen citrate (Ammonium citrate dibasic)	$(\text{NH}_4)_2\text{C}_6\text{H}_6\text{O}_7$
A-29	Agarose for Molecular grade	
<b>B</b>		
B-2	Benzoic acid	$\text{C}_6\text{H}_5\text{COOH}$
B-3	Boric acid	$\text{H}_3\text{BO}_3$
<b>C</b>		
C-1	Calcium chloride dihydrate	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
C-4	Calcium carbonate	$\text{CaCO}_3$
C-5	Copper (II) sulfate	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
C-8	Citric acid	$\text{C}_6\text{H}_8\text{O}_7 \cdot \text{H}_2\text{O}$
C-15	Coomassie Brilliant Blue G-250	
C-26	Celite 545	
<b>D</b>		
D-1	Diatomaceous earth (Celite)	

Code	Chemical name	Molecular formula
<b>E</b>		
E-1	EDTA (ethylene diamine tetra acetic acid disodium salt)	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
<b>F</b>		
F-1	Iron (II) sulfate heptahydrate	$FeSO_4 \cdot 7H_2O$
F-2	Iron (II) chloride tetrahydrate (Ferrous chloride)	$FeCl_2 \cdot 4H_2O$
<b>G</b>		
G-1	Glucose anhydrous	$C_6H_{12}O_6$
G-2	Glycine	$C_2H_5NO_2$
G-4	Gallic acid monohydrate	$C_7H_6O_5H_2O$
<b>I</b>		
I-1	Iodine resublimed	$I_2$
<b>ID (Indicator and dye)</b>		
ID-2	Bromocresol green	$C_{21}H_{14}Br_4O_5S$
ID-6	Methyl red	$C_{15}H_{15}N_3O_2$
ID-7	Phenolphthalein	$C_{20}H_{14}O_4$
ID-8	Methylene blue	$C_{16}H_{18}ClN_{3S} \cdot xH_2O$
ID-9	Methyl orange	$C_{14}H_{14}N_3NaO_3S$
ID-10	Safanin O	$C_{20}H_{19}ClN_4$
ID-12	Phenol red	
ID-28	Crystal violet	$C_{25}H_{30}ClN_3$
ID-36	Methylene violet SRAX	

Code	Chemical name	Molecular formula
<b>L</b>		
L-2	Lactose monohydrate	$C_{12}H_{22}O_{11}$
L-3	Lauryl sulfate (SDS: Sodium dodecyl sulfate)	$C_{12}H_{25}O_4SNa$
L-3/1	Lauryl sulfate (SDS: Sodium dodecyl sulfate) for electrophoresis	$C_{12}H_{25}O_4Sna$
<b>M</b>		
M-1	Magnesium sulfate heptahydrate	$MgSO_4 \cdot 7H_2O$
M-2	Manganese (II) sulfate monohydrate	$MnSO_4 \cdot H_2O$
<b>P</b>		
P-1	Potassium hydroxide	KOH
P-2	Potassium sodium tartrate	$COOK(CHOH)_2COONa$
P-4	Potassium hydrogen phthalate	$C_8H_5KO_4$
P-5	Potassium sulphate	$K_2SO_4$
P-6	Potassium chloride	KCl
P-9	Potassium permanganate	$KMnO_4$
P-12	Potassium iodide	KI
P-13	di-Potassium hydrogen phosphate-3-hydrate	$K_2HPO_4 \cdot 3H_2O$
P-17	Potassium dichromate	$K_2Cr_2O_7$
P-24	Potassium dihydrogen phosphate	$KH_2PO_4$
P-25	Phenol	$C_6H_6O$
P-29	Potassium tellurite	$K_2TeO_3$

Code	Chemical name	Molecular formula
<b>S</b>		
S-3	Sodium carbonate anhydrous	$\text{Na}_2\text{CO}_3$
S-6	di-sodium hydrogen phosphate anhydrous	$\text{Na}_2\text{HPO}_4$
S-7	Sodium hydroxide	$\text{NaOH}$
S-13	Sodium thiosulphate 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-16	Sodium dihydrogen orthophosphate	$\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$
S-17	Sodium acetate	$\text{CH}_3\text{COONa}$
S-21	Sodium hydrogen carbonate (Sodium bicarbonate)	$\text{NaHCO}_3$
S-23	Sodium benzoate	$\text{C}_6\text{H}_5 \cdot \text{COONa}$
S-24	Starch	
S-26	Sodium chloride	$\text{NaCl}$
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-41	Sucrose (Saccharose)	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
<b>T</b>		
T-1	Trichloroacetic acid	$\text{CCl}_3\text{COOH}$
T-2	Thiobarbituric acid	$\text{NHCOCH}_2\text{CO} \cdot \text{NHCS}$
T-3	L (+) Tartaric acid	$\text{HOOC}(\text{CHOH})_2\text{COOH}$
T-17	Tris(base) for Molecular grade	
<b>Z</b>		
Z-1	Zinc sulfate	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$
Z-4	Zinc chloride	$\text{ZnCl}_2$

Code	Chemical name	Molecular formula
<b>Solution reagent</b>		
SA-1	Glacial acetic acid	CH <sub>3</sub> COOH
SA-3	Acetone	CH <sub>3</sub> COCH <sub>3</sub>
SC-1	Chloroform	CHCl <sub>3</sub>
SC-1	Chloroform	CHCl <sub>3</sub>
SF-3	Folin and Coaculteu's phenol reagent	
SG-1	Glycerol	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>
SH-1	Hydrochloric acid	HCl
SH-2	Hydrogen peroxide 35%	H <sub>2</sub> O <sub>2</sub>
SM-1	Methanol	CH <sub>3</sub> OH
SN-1	Nitric acid	HNO <sub>3</sub>
SP-2*	Petroleum ether (Petroleum spirit, Petroleum benzene) 40-60%	
SP-6	ortho-phosphoric acid	H <sub>3</sub> PO <sub>4</sub>
SS-1	Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>
ST-9	Tween 80	

*\* Only for use with fat analyzers up to 1 liter/group*

Code	Chemical name	Molecular formula
<b>Media</b>		
MA-1	Agar	
MD-1	D (+) –Glucose Monohydrate or Dextrose	
ME-3	Extract of meat dry (beef extract)	
MI-1	Immersion oil	
MK-1	Kovac indole Reagent	
ML-3	Lactose Monohydrate for microbiology	
MM-1	MIL-medium (LIM-medium)	
MM-2	Malt extract	
MM-3	Maltose for microbiology	
MP-2	Peptone (Peptone from meat)	
MP-6	Soytone (Peptone from soymeal)	
MP-7	Tryptone (Peptone from soymeal)	
MT-5	Triple Sugar Iron agar	
MU-1	Urea Agar Base <i>in the refrigerator</i>	
MY-1	Yeast extract	