Recommended Storage Groups for Common Chemicals

CHEMICAL	Group
1-Butanol or 2-	L
1-Propanol	L
2-Mercaptoethanol	L
Acetic Acid, Glacial (flammable)	D
Acetic Anhydride	L
Acetone	L
Acetonitrile	L
Acetaldehyde	L
Acrolein	L
Acrylamide	G
Agarose	G
Ammonium Acetate	G
Ammonium Chloride	G
Ammonium Formate	G
Ammonium Hydroxide	C
Ammonium Nitrate	E
Ammonium Persulfate	E
Ammonium Sulfate	G
Ammonium Sulfide	L
Benzene	L
BIS & BIS-Acrylamide	G
BIS TRIS	A
Borax	G
Boric Acid	G
Calcium Chloride	G
Chloroform	G
Chromerge	E
Citric Acid	D
Coomassie Blue	G
Dextrose	G
Dichloromethane	G
Diethylamine (flammable)	A
Diethyl Pyrocarbonate	L
Dimethyl Popop	G
Dimethyl Sulfoxide (DMSO)	L
Drierite	G
EcoLume, UniverSOL, BetaMax, CytoScint, Scintisafe, Econo-Safe, Ecoscint, Opti-fluor	L
EDTA (in solution G)	D
Ethanol	L
Ethanolamine	A
Ethers	L
Ethidium Bromide	G
Ethyl Acetate	L
Ethylene Glycol	L
Ficoll	G
Formaldehyde	L
Formamide	L
Formic Acid (88%)	D
Geopen	G
Glutaraldehyde	G
Glycerol	L
Glycine	G
Guanidine Hydrochloride	G
Guanidine Thiocyanate	C
Halothane, Isoflurane	G
HEPES	G
Hexanes	L
Hydrochloric Acid	F
Hydrogen Peroxide, 90%	E
Hydrogen Peroxide, <5%	G
Imidazole	A
Isobutyl Alcohol	L
Isopentane	L
Isopropanol	L
Magnesium Chloride	G
Magnesium Sulfate	G
Maleic Acid	D
Methanol	L
N-Methyl-2-Pyrrolidone	L
N,N Dimethylformamide	L
Nitric Acid	E
P-Dioxane	L
Paraformaldehyde	L
Perchloric Acid	E
Periodic Acid	E
Permount	L
Phenol	L
Phosphoric Acid	F
Picric Acid dry (<10% H_2O)	K
Picric Acid moist (10-40% H_2O)	X
Picric Acid soln (1-4%)	X
Piperidine	A
Pipes, Free Acid	G
Potassium Acetate	G
Potassium Chloride	G
Potassium Cyanide	C
Potassium Hydroxide (KOH)	C
Potassium Phosphate	G
PPO	G
Propionic Acid	D
Propylene Oxide	L
Pump Oil	L
Pyridine	A
SDS (Sodium Lauryl Sulfate) (in solution G)	L
Sigmacote	L
Sodium Acetate	G
Sodium Azide	X
Sodium Bicarbonate	G
Sodium Bisulfate	G
Sodium Bisulfite	G
Sodium Borate	G
Sodium Borohydride	B
Sodium Carbonate, Anhydrous	G
Sodium Chlorate	E
Sodium Chloride (NaCl)	G
Sodium Citrate, Dihydrate	G
Sodium Dichromate, Dihydrate	E
Sodium Hydroxide (NaOH)	C
Sodium Hypochlorite	E
Sodium Hypochlorite solution (i.e. Bleach)	G
Sodium Phosphate	G
Sodium Sulfide, Anhydrous	B
Succinic Acid	D
Sucrose	G
Sulfuric Acid	F
Tannic Acid	D
TEMED	A
TES free acid	G
Tetracycline	G
Tetrahydrofuran	L
Trichloroacetic Acid	D
Toluene	L
Triethanolamine	A
TRIS	A
Triton X-100	G
Trizol	L
TWEEN 20	G
Urea	G
WD-40	L
Xylenes	L
Zinc Chloride	G

See other side for information about the Stanford Storage Group System. Storage Groups are continuously reviewed and updated as needed. If you have any questions or suggested changes, please contact the EH&S at 723-0448.

Stanford University Compatible Storage Group Classification System
Should be used in conjunction with specific storage conditions taken from the manufacturer's label and MSDS.

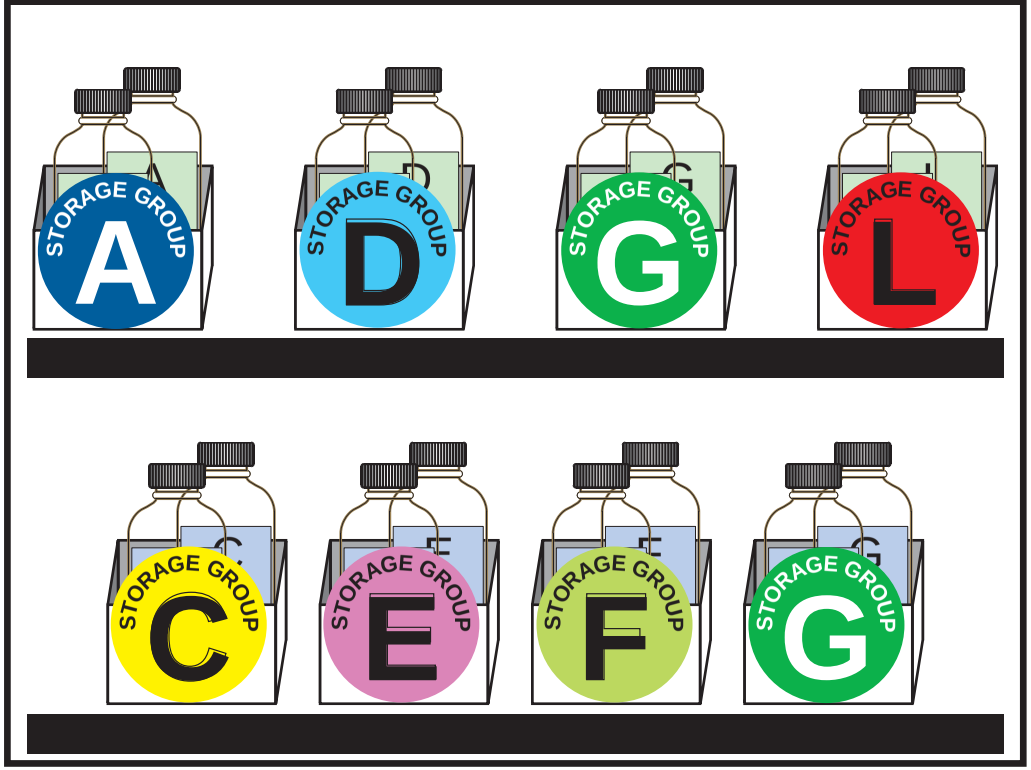
STORAGE GROUPS

Store chemicals in separate secondary containment and cabinets
Find Storage Group information in Chemtracker:
https://chemtracker.stanford.edu/chemsafety

A	Compatible Organic Bases
B	Compatible Pyrophoric & Water Reactive Materials
C	Compatible Inorganic Bases
D	Compatible Organic Acids
E	Compatible Oxidizers including Peroxides
F	Compatible Inorganic Acids not including Oxidizers or Combustible
G	Not Intrinsically Reactive or Flammable or Combustible
J*	Poison Compressed Gases
K*	Compatible Explosive or other highly Unstable Material
L	Non-Reactive Flammable and Combustible, including solvents
X*	Incompatible with ALL other storage groups

***Storage Groups J, K and X: Contact EH&S @ 3-0448**
For specific storage - consult manufacturer's MSDS

If space does not allow Storage Groups to be kept in separate cabinets the following scheme can be used with extra care taken to provide stable, uncrowded, and carefully monitored conditions.



Storage Group X must be segregated from all other chemicals.

Storage Group B is not compatible with any other storage group.

Last updated 04/17/09