

GuideSheet

Chemical Abbreviations and Formulas

Clearly label all containers with content name. In general, label **EVERYTHING** except substances actively in use. Write out the full chemical and/or biological name or use abbreviations (useful for small containers). If abbreviations are used, display this guide sheet prominently at several locations in each lab. Extend the list with lab-specific abbreviations, as needed.

Full Name	Abbr./Form.	Full Name	Abbr./Form.	Full Name	Abbr./Form.
Acetic acid	AcOH	Fetal bovine serum/ fetal calf serum	FBS/FCS	Potassium chloride	KCl
Acetic anhydride	Ac ₂ O	Formic acid or Formamide	FA	Potassium hydroxide	KOH
Acetonitrile	ACN/CH ₃ CN	Guanidine hydrochloride	GuHCl	Potassium permanganate	KMnO ₄
Ammonium bicarbonate	NH ₄ HCO ₃	Hexane	Hex/Hx	p-Toluenesulfonic acid	TsOH
Ammonium chloride	NH ₄ Cl	Hydrogen fluoride/ Hydrofluoric acid	HF	Sodium acetate	NaOAc
Ammonium hydroxide	NH ₄ OH	Hydrogen chloride/ Hydrochloric acid	HCl	Sodium azide	NaN ₃
Ammonium persulfate	APS	Hydrogen peroxide	H ₂ O ₂	Sodium bicarbonate	NaHCO ₃
Ammonium sulfate	(NH ₄) ₂ SO ₄	Isopropyl alcohol	IPA	Sodium carbonate	Na ₂ CO ₃
Buckminsterfullerene	C ₆₀	Magnesium chloride	MgCl ₂	Sodium chloride	NaCl
Calcium chloride	CaCl ₂	Magnesium sulfate	MgSO ₄	Sodium tetraborate (Borax)	Na ₂ B ₄ O ₇
Chloroform	CHCl ₃	Manganese chloride	MnCl ₂	Sodium hydroxide	NaOH
Copper sulfate	CuSO ₄	β-mercaptoethanol	β-ME	Sodium phosphate	NaH ₂ PO ₄
Deionized water	diH ₂ O	Methanol	MeOH	Sulfuric acid	H ₂ SO ₄
Dichloromethane	DCM	Methyl methacrylate	MMA	Tetrahydrofuran	THF
Diethyl ether	Et ₂ O	N,N-Diisopropylethylamine	DIPEA	Trichloroacetic acid	TCA
Diethyl pyrocarbonate	DEPC	Nickel chloride	NiCl ₂	Triethanolamine	TEA
Diethylaminoethyl	DEAE	Nickel sulfate	NiSO ₄	Triethylamine	Et ₃ N
Dimethyl formamide	DMF	Nitric acid	HNO ₃	Trifluoroacetic acid	TFA
Dimethyl sulfoxide	DMSO	N-Methyl-2-pyrrolidone	NMP	Zinc chloride	ZnCl ₂
Disodium phosphate	Na ₂ HPO ₄	Paraformaldehyde	PFA		
Distilled deionized water	ddH ₂ O	Phenylmethylsulfonyl fluoride	PMSF		
Distilled water	dH ₂ O; DI	N-Phenylthiourea	PTU		
Dithiothreitol	DTT	Phosphoric acid	H ₃ PO ₄		
Ethanol	EtOH	Polyethylene glycol	PEG		
Ethidium bromide	EtBr	Poly(Methyl methacrylate)	PMMA		
Ethyl acetate	EA	Potassium carbonate	K ₂ CO ₃		

