

Name of Chemical	Common Name	Formula	Source
acetic acid	vinegar (5% solution) acetic acid, glacial stop bath (28%)	CH ₃ COOH	grocery store, photo store
acetone	nail polish remover	CH ₃ COCH ₃	drug store
acetylsalicylic acid	Aspirin	C ₉ H ₈ O ₄	drug store
aluminum	aluminum foil, wire, sheet	Al	grocery store, hardware store, building supply
aluminum ammonium sulfate	ammonium alum	AlNH ₄ (SO ₄) ₂	drug store
aluminum potassium sulfate	Alum	KAl(SO ₄) ₂ 12H ₂ O	drug store
aluminum sulfate	sulfate of aluminum	Al ₂ (SO ₄) ₃	garden supply
ammonia	Ammonia	NH ₃ (aq)	grocery store
ammonium carbonate	smelling salt	(NH ₄) ₂ CO ₃	drug store
ammonium chloride	sal ammoniac	NH ₄ Cl	hardware store, garden supply
ammonium nitrate	nitrate of ammonia	NH ₄ NO ₃	grocery store
amylum	corn starch	[C ₆ H ₁₀ O ₅] _n	drug store
ascorbic acid	vitamin C	C ₆ H ₈ O ₆	drug store
boric acid (ortho-boracic acid)	boric acid roach killer	H ₃ BO ₃	drug store, hardware store
butane	lighter fuel	C ₄ H ₁₀	grocery store
caffeine	No-Doz tablets	C ₃ H ₁₀ N ₄ O ₂	drug store
calcium carbonate	chalk limestone, marble chips	CaCO ₃	variety store, garden supply
calcium chloride	ice melter	CaCl ₂	hardware store
calcium hydroxide	slaked lime	Ca(OH) ₂	hardware store
calcium hypochlorite	bleaching powder	Ca(ClO) ₂	grocery store, pool supply
calcium oxide	Quicklime	CaO	hardware store
calcium phosphate	Superphosphate	Ca(H ₂ PO ₄) ₂	garden supply
calcium sulfate	Gypsum	CaSO ₄	building supply
carbon	Charcoal, activated charcoal, graphite powder/rod	C	hardware store, pet store, pencil lead
carbon dioxide, solid	dry ice	CO ₂	refrigeration supply, ice cream company
citric acid	sour salt	C ₆ H ₈ O ₇	grocery store
copper	sheet, pipe, or wire	Cu	hardware store, building supply
copper sulfate	Bluestone algicide, Root Eater	CuSO ₄	pool supply, hardware store
dichlorodifluoromethane	Freon-12	Cl ₂ CF ₂	auto supply
ethanol	ethyl alcohol, absolute ethyl alcohol, 95% denatured alcohol rubbing alcohol	CH ₃ CH ₂ OH	liquor store, paint store, drug store
ethylene glycol	Antifreeze	HOCH ₂ CH ₂ OH	auto supply, hardware store
glucose	Dextrose	C ₆ H ₁₂ O ₆	drug store
glycerol	Glycerin	C ₃ H ₈ O ₃	drug store
gold	Gold	Au	jewelry supply, coin store
helium	Helium	He	party shop
hydrochloric acid	muriatic acid	HCl	hardware store
hydrogen peroxide	hydrogen peroxide 3%, Clairoxide (6%)	H ₂ O ₂	drug store
hydroquinone		C ₆ H ₆ O ₂	photo store
iodine	Tincture of iodine (dissolved in ethanol)	I ₂	drug store
iron	steel wool or nails	Fe	hardware store
iron (III) chloride	ferric chloride	FeCl ₃	drug store
iron (III) oxide	ferric oxide rust	Fe ₂ O ₃	ceramic store
kerosene	lamp oil	C _n H _{2n+2}	gas station
lactic acid	milk acid	CH ₃ COHCOOH	grocery store, hardware store
latex	liquid rubber isoprene	C ₅ H ₈ [CH ₂ :CHC(CH ₃):CH ₂]	hobby shop
lead	lead shot sinkers	Pb	hardware store, sporting goods store
magnesium hydroxide	Milk of Magnesia antacid	Mg(OH) ₂	drug store
magnesium silicate	Talc(um) powder	Mg ₃ Si ₄ O ₁₀ (OH) ₂	drug store
magnesium sulfate	Epsom salt	MgSO ₄	drug store
mercury	Quicksilver	Hg	dental supply

methane	natural gas	CH_4	home gas range
methanol	methyl alcohol, wood alcohol, duplicator fluid, gas dryer	CH_3OH	paint store, office supply, auto store
methylene blue (3,9-bisdimethylamino-phenazothionium choride)	Methidote	$\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}$	Veterinarian
methyl salicylate	oil of wintergreen	$\text{C}_6\text{H}_4(\text{OH})\text{COOCH}_3$	grocery store
mineral oil	Nujol		drug store
naphthalene	Moth balls	C_{10}H_8	hardware store, grocery store
oxygen	Oxygen	O_2	drug store, welding supply
oxalic acid	rust remover	$\text{HO}_2\text{CCO}_2\text{H}$	hardware store
paradichlorobenzene	moth balls	$\text{C}_6\text{H}_4\text{Cl}_2$	hardware store, grocery store
paraffin	paraffin wax candles		grocery store, hardware store
phenol red		$\text{C}_{19}\text{H}_{14}\text{O}_5\text{S}$	pool supply
phenolphthalein	Ex-Lax (tablets), Feen-a-Mint	$\text{C}_{20}\text{H}_{14}\text{O}_4$	drug store
polystyrene	casting resin		hobby shop
polyurethane foam	Craft Cast Mountain in Minutes		hobby shop, building supply
potassium aluminum sulfate	potassium alum	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	photo store
potassium bitartrate	cream of tartar	$\text{KHC}_4\text{H}_4\text{O}_6$	grocery store
potassium bromide		KBr	photo store
potassium chloride	lite salt	KCl	grocery store
potassium chrome alum		$\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	photo store
potassium dichromate		$\text{K}_2\text{Cr}_2\text{O}_7$	photo store
potassium ferricyanide		$\text{K}_3\text{Fe}(\text{CN})_6$	photo store
potassium hydroxide	lye caustic potash	KOH	grocery store, hardware store
potassium nitrate	Salt peter	KNO_3	drug store
propane	gas barbecue fuel blow torch fuel	C_3H_8	gas station, hardware store
2-propanol	isopropyl alcohol rubbing alcohol	$\text{CH}_3\text{CHOHCH}_3$	drug store
red cabbage juice	red cabbage		grocery store
silicon dioxide	Sand	SiO_2	hardware store, garden supply, washed beach sand
silver	Silver	Ag	coin store
sodium acetate	heating pad (supersaturated solution)	$\text{NaC}_2\text{H}_3\text{O}_2$	drug store, sporting goods
sodium borate	Borax	$\text{Na}_2\text{B}_4\text{O}_7$	grocery store
sodium carbonate	washing soda	Na_2CO_3	grocery store
sodium chloride	table salt	NaCl	grocery store
sodium hydrogen carbonate	baking soda	NaHCO_3	grocery store
sodium hydroxide	lye caustic soda	NaOH	grocery store, hardware store
sodium hypochlorite	bleach (5% solution) mildew remover	NaClO	grocery store, paint store
sodium nitrate	nitrate of soda	NaNO_3	garden supply
sodium phosphate	trisodium phosphate	Na_3PO_4	paint store
sodium silicate	water glass	Na_2SiO_3	hardware store
sodium sulfite		Na_2SO_3	photo store
sodium sulfate		Na_2SO_4	photo store
sodium thiosulfate	Hypo	$\text{Na}_2\text{S}_2\text{O}_3$	photo store
stearic acid	candle hardener	$\text{C}_{17}\text{H}_{35}\text{CO}_2\text{H}$	hobby shop
sucrose	table sugar	$\text{C}_{12}\text{H}_{22}\text{O}_11$	grocery store
sulfur	flowers of sulfur	S	drug store, hardware store
sulfuric acid	battery acid	H_2SO_4	auto store, gas station
tannic acid	Tannin	$\text{C}_{76}\text{H}_{52}\text{O}_{46}$	drug store, dye/fabric store, photo store
thymolphthalein	disappearing ink	$\text{C}_{28}\text{H}_{30}\text{O}_4$	toy/novelty store
1,1,1-trichloroethane	cleaning fluid	CCl_3CH_3	hardware store
urea	ice melter fertilizer	H_2NCONH_2	hardware store, garden supply