

Appendix B:

Legitimate Use Table

Chemical	Legitimate Uses
Acetaldehyde*	Perfumes, flavors, plastics, silver mirrors
Acetic acid*	Food preservative, organic synthesis
Acetic anhydride*	Organic synthesis, dehydrating agent
Acetone	General solvent
Acetonitrile*	Solvent, organic synthesis
Allylbenzene*	None listed
Allylchloride*	Organic synthesis
4 allyl 1,2 methylenedioxybenzene*	None listed
Aluminum powder	Paint additive, pyrotechnics, explosives, metal alloys
Aluminum chloride*	Disinfectant, deodorant, wood preservative
Ammonia gas*	Refrigerant, manufacture of nitric acid and explosives
Ammonium chloride*	Batteries, electroplating, textiles
Ammonium formate*	Inorganic metal analysis
Ammonium hydroxide*	None listed
Ammonium nitrate	Fertilizer, explosives, matches, pyrotechnics
Aniline*	Dyes, perfumes, varnishes, organic synthesis
Benzaldehyde*	Dyes, perfumes, flavors
Barium chlorate	Pyrotechnics, explosives, matches, dye processes
Barium nitrate	Pyrotechnics, explosives, vacuum tube manufacture
Benzene*	Pharmaceuticals, dyes, industrial solvent
Benzyl chloride*	Dyes, pharmaceuticals, perfumes, resins
Benzyl cyanide*	None listed
Bromobenzene*	Grignard reagent
Bromoethane*	None listed
Carbon dioxide	Beverage carbonation, fire extinguishers, dry ice
Carbontetrachloride*	Dry cleaning, fire extinguishers, general solvent
Chloro-2-propanone*	Intermediate for perfumes, drugs, insecticides, photography
Copper oxide	Ceramic and glass pigment, glass polishing
Copper sulfate	Fungicide, photography, food additive, paint pigment

Chemical	Legitimate Uses
Cyclohexanone*	Industrial solvent
Dichloroethane*	None listed
Ephedrine*	Bronchodilators
Ergotamine tartrate*	Treatment of migraine headaches
Ethyl acetate*	Photo film, perfume, gun powder, dry cleaning
Formamide*	Organic synthesis
Formic acid*	Tanning, electroplating, wool dyeing
Hydrazine	Reducing agent, rocket fuel
Hydrobromic acid*	Analytical reagent
Hydrochloric acid	Pool chemical, masonry and metal cleaner, mining
Hydrogen	Welding
Hydrogen peroxide*	Rocket fuel, bleaching agent
Hydriodic acid*	Pharmaceuticals, disinfectants
Hydroxylamine HCl*	Photography, antioxidant for soaps
Iodine*	Germicides and antiseptics, catalyst
Lithium metal*	Catalyst, metal alloys, batteries
Lithium aluminum hydride*	Reducing agent
Lithium hydroxide	Photographic developers
Magnesium metal	Metal alloys, pyrotechnics, Grignard reagent
Mercuric chloride	Preservative, photography, mining, steel etching
Mercury*	Thermometers, switches, lighting, mining, dentistry
Methanol	Solvent, antifreeze, gas additive, camping fuel
Methyl acrylate*	Plastics and textiles
Methylamine*	Tanning, organic synthesis
Nitric acid	Manufacture of fertilizers, dyes, explosives, and a variety of organic chemicals
Nitroethane	Fuel additive, solvent
Perchloric acid*	Metal plating, explosives
Phenylacetic acid*	Perfumes
Phenylacetonitrile*	Organic synthesis
Phenylmagnesium bromide*	Organic synthesis
Phosphoric acid*	Fertilizers, detergents, food additive, cleaning solvent
Phosphorous red*	Pyrotechnics, matches, fertilizers, pesticides
Phosphorous pentachloride*	Catalyst
Piperidine*	Organic synthesis
Potassium carbonate	Soap, glass, pottery, engraving, tanning
Potassium chlorate	Explosives, pyrotechnics, matches, dye industry
Potassium chromate	Leather tanning, rust-proofing metal
Potassium cyanide	Mining, electroplating, steel hardening
Potassium dichromate	Leather tanning, dyes, paints, pyrotechnics, matches, waterproofing fabrics
Potassium hydroxide	Paint and varnish remover, photo engraving, printing inks
Potassium iodide*	Oxidizer for chemical analysis
Potassium nitrate	Tempering steel, tobacco curing, glass manufacture, explosives
Potassium perchlorate	Explosives, pyrotechnics, photography
Pyridine*	Solvent, organic synthesis

Chemical	Legitimate Uses
Raney nickel*	Catalyst
Sodium acetate	Photography, food additive
Sodium bicarbonate	Baking soda, fire extinguishers, cleaning compounds
Sodium bisulfite	Disinfectant, textile bleaching, food additive
Sodium hydroxide	Drain cleaner
Sodium metal*	Sodium compounds, sodium vapor lamps
Sodium nitrate*	Glass manufacturing, pottery, fertilizer, meat and tobacco preparation
Strontium nitrate	Pyrotechnics, road flares, matches
Sulfuric acid	Battery acid, drain cleaner, fertilizers, explosives
Tartaric acid	Food additive, photography, tanning, ceramics
Thorium nitrate*	Catalyst
Trifluoroacetic anhydride*	None listed
Zinc metal	Metal alloys, batteries, mining, printing plates, household utensils

* No legitimate home or hobby use.