

CHEMICAL SCIENCES DIVISION CHEMICAL INVENTORY

Last Update: 11/01/06

<http://www.usfa.fema.gov/hazmat/master.htm>

Signing for labs

#	BLUE Health hazard	RED Fire hazard Flashpoints °F	YELLOW reactivity	WHITE Specific hazards
4	Deadly	< 73	May detonate	Oxidizer
3	Extreme danger	<100	Shock and heat may detonate	Acid
2	Hazardous	< 200	Violent chemical change	Alkali
1	Slightly hazardous	> 200	Unstable if heated	Corrosive
0	Normal material	Will not burn	stable	Use no water
				Radiation hazard

Lab 1A133 Paul Goldan Bill Kuster Chemical	Health hazard	Health hazard	Fire hazard	Reactivity	Specific hazard
H ₂		0	4	0	
Camphene	<50g				
Pinene	<300g				
Limonene	< 100g				
1,2,3 Tris(2cyanoethoxy propoane (TCEP)	<50 g				
Dimethylcyclohexane	< 125 g	1	3	0	
Alpha phellandrene	<5g				
Alumina	< 1/2 lb				
Ammonium nitrate	< 1 lb	0	0	3	OX
Anhydron	< 1 lb				
Calcium chloride	< 500g	1	0	0	
Cineole	< 100g				
Cupric oxide	< 500g				
Decane	< 100g	1	3	0	
Camphor	< 500g	1	3	0	
Ethylbenzene	< 500ml	1	3	0	
Heptane	< 2.5 l	1	3	0	
Hopcalite	< 10 g	1	3	0	
m-Cresol	< 100g	1	3	0	
m-xylene	< 250 g	1	3	0	
Molybdenum sulfide	<200g				
Molybdenum trioxide	< 1lb				
Myrcene	< 100g				
n-propyl alcohol	< 500ml				

o-cresol	< 100g				
o-xylene	< 500g				
Octane	< 500 g	1	3	0	
p-cymene	< 1 kg				
p-xylene	< 1 pt				
Palladium on alumina	< 10g				
Paraformaldehyde	< 1 lb	3	1	0	
Potassium carbonate	< 2 lb				
Potassium iodide	< 1 lb				
Potassium sulfite	< 25g				
Rhenium	< 25 g				
Silver oxide	< 25 g	0	0	0	
Sodium bisulfate	< 1 kg				
Sodium nitrate	< 1 lb				
Sodium nitrite	< 1 lb				
Sodium sulfite	< 500g				
Sulfur sublimed	< 500g				
Tetrahydroethylethyl enediamine	<25g				
Teramethylphenylene diamine HCl	<50g				
Tungsten chloride	< 10 g				
Tungsten carbonyl	< 100 g				
Tungtic acid	< 250 g				
Tungstic oxide	< 250 g				
3-carene	< 25 ml				
Glyptol	< 20 ml				
n,n, bis(2- cyanoethyl)fromamide	<500 g				
y-trepinene	<5 g				
		1	3	0	

Room: 1A202A

Atmospheric Chemical Kinetics Group

Material	Amount	Hazard Ratings				Date	Date
		Health	Fire	Reactivity	Specific	Purchased	Inventory
N ₂ (UHP) Cylinder (3)	1A						11/04
O ₂ (UHP) Cylinder	1A						11/04
He (UHP) Cylinder	1A						11/04
N ₂ (UHP) Cylinder	Small						11/04
NO ₂ (12 ppm)/N ₂ Mixture Scott # ALM061867	1A						11/04
Air	1A						11/04
Butanol	1 L						11/04
Nigrosin Dye	100 g						11/04
Nigrosin Dye	100 g						11/04
O ₂ (UHP) Cylinder	1A						11/04
NO Cylinder Research Laboratory Inc. # A-1119	1A						11/04
N ₂ (NIST) Cylinder	1A						11/04
He (UHP) Cylinder	1A						11/04
Ar Scientific Gases #1A-015174	1A						11/04
H ₂ Scott # 1A-024232	1A						11/04
N ₂ (UHP) Cylinder	1A						11/04
Air (Zero)	1A						11/04
Butanol	1 L						11/04

Trifloromethyl iodide (CF ₃ I)	LB						11/04
Ethene	LB						11/04
Propane	LB						11/04
Propene	LB						11/04
Chloromethane	LB						11/04
Chloroethene	LB						11/04
SO ₂	LB						11/04
Dilute α-pinene/He sample	Bulb						11/04
Dilute β-pinene/He sample	Bulb						11/04
Dilute β-caryophyllene/He	Bulb						11/04
Dilute O ₃ /O ₂	Bulb						11/04
Dilute CH ₃ ONO (1%)/He	Bulb						11/04
Dilute CH ₂ I ₂ /He	Bulb						11/04
NO ₂ Sample	< 20 ml						11/04
“Fume Hood Cabinet”							
Ethyl Alcohol	1 Gal						11/04
Acetone	4 L						11/04
Acetone (HPLC) (3)	1 L						11/04
Methanol (HPLC) (3)	1 L						11/04
Methanol (Spec. Grade)	1 L						11/04

Room: 1A203

Atmospheric Chemical Kinetics Group

Material	Amount	Hazard Rating				Date	Date
		Health	Fire	Reactivity	Specific	Purchased	Inventory
Zero Air Cylinder	1A						11/04
O ₂ Cylinder (UHP)	1A						11/04
He Cylinder (UHP)	1A						11/04
Ne Cylinder Scientific Gas Products # 40-003754	2' Tall						11/04
SF ₆ Cylinder Scott; # A-020552	1A						11/04
CO Cylinder Spectra Gases; # 02A98	2' Tall						11/04
Excimer Laser Pre-Mix Cylinder F ₂ 0.13%/Ar 5.7%/Neon; Lextra Spectra Gases; # SS22577	1A						11/04
Excimer Laser Pre-Mix Cylinder F ₂ 0.225%/Xe 0.45%/Neon; Compex Spectra Gases; # 2509259Y	2' Tall						11/04

F ₂ (5%)/ He Cylinder Mixture Spectra Gases; # D11654	2' Tall						11/04
Cl ₂ (9.8%)/ He Cylinder Mixture Scott; # A-019371	1A						11/04

Room: 1A204

Atmospheric Chemical Kinetics Group

Material	Amount	Hazard Rating				Date	Date
		Health	Fire	Reactivity	Specific	Purchased	Inventory
O ₂ (UHP) Cylinder (3)	1A						11/04
N ₂ (UHP) Cylinder (3)	1A						11/04
N ₂ (NIST) Cylinder (4)	1A						11/04
He (UHP) Cylinder (5)	1A						11/04
He (NIST) Cylinder	1A						11/04
Ultra-Zero Air Scott # JJ14769	2'						11/04
Ne Praxair # 941031	1A						11/04
CH ₄ Precision Gas Products # 73400	1A						11/04
Cl ₂ (6%)/He Mixture Scott #							
NO (15 ppm)/N ₂ Mix Scientific Gas Products # 1L-2096 (On loan from Fahey)	1A						11/04
NO Cylinder Matheson 31797	1A						11/04
NO (1%)/N ₂ Scott # JJ8878							
H ₂ (1%)/He Mixture	1A						11/04
Laser Pre-Mix HCl (0.16%)/H ₂ (0.03%)/Xe (2.4%)/Ne Spectra Gases # 266522Y	Small						11/04
Laser Pre-Mix F ₂ (0.285%)/Kr (0.58%)/He Spectra Gases # 1836830Y	Small						11/04

Laser Pre-Mix F ₂ (0.18%)/Kr (3.75%)/He (1%)/Ne Spectra Gases # 2383153Y	Small						11/04
Laser Pre-Mix ArF Spectra Gases # 2379673Y	Small						11/04
Laser Pre-Mix F ₂ (0.155%)/Ar (3.15%)/Ne Spectra Gases # 1304601	Small						11/04
Laser Pre-Mix Spectra Gases	Small						11/04
Laser Dye Solutions	2 L Total						
HCl (1%)/He Sample	Bulb						11/04
Dilute CS ₂ /He Sample	Bulb						11/04
Dilute SO ₂ /He Sample	Bulb						11/04
Dilute DMDS/He Sample	Bulb						11/04
Dilute DMDS/He Sample	Bulb						11/04
Dilute NO ₂ /He Sample	Bulb						11/04
Dilute Trans-2-Hexenal Sample	Bulb						11/04

Lab 1A206 Jim Roberts Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
1-Octanol	1L				
1,3 phenylene diamine	200g				
1,3,5-trioxane	< 25g				
2,3-diamino propionic acid mono HCl	5g				
4-hydroxy phenyl acetic acid	250g				
Activated carbon	250g				
Adipic acid	100g				
Aluminum nitrate	100g				
Al ₂ O ₃ coarse	<10g				
Al ₂ O ₃ mid-size	< 5g				
Aluminum oxide Merck	< 1lb				
Ammonium chloride	500g				
Ammonium nitrate	100g				
Ascarite	< 500g				
Ascorbic acid	200g				
Benzil	5g				
Benzoic acid	1 lb				
Boric acid	500g				
Brij Solution					
Bromcresol Green	500ml				
Calcium chloride	500g				
Carbon tetrachloride	< 500ml	0	0	0	
Carbon activated	< 250 g				
Carbon/sulfur activated	20g				

Citric acid	600g				
Citric acid, monosodium	100g				
Copper sulfate	1000g				
Crotonic anhydride	25g				
Diethyl sulfate	100g				
Dimethyl sulfate	200ml				
Dodecane	50ml				
Drierite	1 lb				
Ethanolamine HCl	50g				
Ethylamine HCl	100g				
EDTA disodium salt	500g				
Ethylene glycol	50ml				
Ferric chloride	5g				
Ferroun Indicator 0.1%	100ml				
Ferrous Sulfate•7H ₂ O					
Formaldehyde 37%	450ml				
Formaldehyde sodium bisulfite adduct	100g				
Formic acid, 88%	500ml				
Fumaric acid	100g				
Glassclad 18	450ml				
Glutaric acid	25g				
Glycerol	500ml				
Glycolic acid	35g				
HayeSep D 100/120	< 10 g				
Hg+2 waste	< 250ml				
HgNO ₃ and HNO ₃	<5g				
HgO red & Porasil	<10g				
HgO yellow & porasil	<10g				
HgO on Al ₂ O ₃	<5g				
Hopcalite	250g				

Hopcalite 80/100	<1lb				
Hydrogen peroxide	<500ml	1	0	1	OX
Keto-maloninc acid	5g				
Lactic acid	100ml				
Lithium carbonate	500g				
Lithium chloride	500g				
Magnesium chloride	100g				
Magnesium metal	1 lb				
Magnesium sulfate	100g				
Maleic acid	100g				
Malic acid	50g				
Malonic acid	25g				
Manganese oxide	100g				
mercuric oxide	200g	3	0	0	
Mercury	50ml	4	0	0	
Mercury(1) Nitrate dihydrate	50g				
Mercury(II) Chloride	50g	3	0	0	
Mercury(II)nitrate monohydrate	50g				
Mercury(II)oxide	100g	3	0	0	
Mercury(II)oxide on glass beads	10g	3	0	0	
Methylamine HCl	50g				
Methylmalonic acid	5g				
Methylsuccinic acid	25g				
Molecular sieves 13x	< 5lbs				
Molecular sieves 5A	< 1kg				
Molecular sieves 5A 60/80	<50 g				
Ni on Kg 20/40	<10g				

Nickel 55-60% on Kieseiguhr	100g	Health hazard	Fire hazard	Reactivity	Specific hazard
OMI-2 indicator tube					
Oxalic acid	500g				
Palladium fibers	1g				
Palladium 10% on alumina	10g				
Palladium on alumina spheres	200g				
Palladium on Kaowool	10g				
Palladium powder	10g				
Palladium powder	1g				
Palladium sponge	5g				
Palladium tubing	5g				
Paraformaldehyde	5g				
Pentanediol-1,5	<100g				
Peracetic acid	<100ml				
pH 10 buffer, Baxter	200ml				
Phenol red indicator 0.04%	100ml				
Phenothiazine	25g				
Phosphoric acid	<100ml	3	0	0	
Phthalic anhydride	500g				
Pimelic acid	25g				
Potassium dichromate	1 lb				
Potassium hydrogen phthalate	1000g				
Potassium hydroxide	1000g	3	0	1	
Potassium iodide	1 lb	1	0	0	
Potassium oxalate	1 lb				
Potassium permanganate 0.1N solution	1000ml				
Potassium persulfate	500g				

Propionic acid	500ml				
Propionic anhydride	<50g				
R3-11 Ozone catalyst	1kg				
Silica gel	250g				
Sodium acetate	100g				
Sodium bicarbonate	500g				
Sodium borate	500g				
Sodium bromide	500g				
Sodium carbonate	500g				
Sodium chloride	2.5 kg	3	0	1	
Sodium fluoride	100g				
Sodium formate	1 lb				
Sodium hydroxide	500g	3	0	1	
Sodium hydroxide pellets	2.5 kg	3	0	1	
Sodium iodide	2kg				
Sodium metabisulfite	100g				
Sodium nitrate	500g				
Sodium nitrite	1000g				
Sodium oxalate	200g				
Sodium perchlorate	500g				
Sodium phosphate, monobasic	500g				
Sodium phosphate, dibasic	500g				
Sodium phosphate, tribasic	500g				
Sodium stannate	10g				
Sodium sulfate	500g				
Sodium sulfite	2kg				
Sodium tartrate	100g				
Suberic acid	100g				
Succinic acid	500g				
Suflur	50 g				
Tartronic acid	10g				

Tenax GB	<10g				
Tenax GC 60/80	<15g				
Tenax TA 60/80	<10g				
Tenax TX 80/100	<10g				
Tridecane (2)	<200g	0	2	0	
Tyramine	5g				
Tyrosine	100g				
Vanadium oxide	10g				
Carbosieve SIII 60/80	<10g				
GC porasil	<10g				
PAN in tridecane	<5 ml				
PPN in tridecane	<5ml				
WS1195 flux	<10g				
Zonyl fluorosurfactant	25ml				
GASES					
Air	Size A				
N2	Size A				
He	Size A				
Dilute mixtures in air	AL,BL, CL				

Lab 1A206 Fridge A Jim Roberts Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
1-bromo butane	50g				
1-bromo hexane	100g				
1-bromo-3-methyl butane	100g				
1-bromo pentane	100g				
1,1,1-trichloroethane	<1 qt				
1,3-butadiene	<100g				
1,4-butanediol	100g				
1,5-pentanediol	100g				
2-bromo butane	100g				
2-bromo pentane	100g				
2-butanone	5ml				
2-chlorobutane	100g				
2-chloropropane	100ml				
2-chloro-2-methyl propane	250g				
2-hexanone	5g				
2-methyl-2-vinyl-oxirane	20g				
2,2-dimethylbutane	<100g	1	3	0	
2,2-dimethoxypropane	300g				
2,2,4-trimethylpentane	< 5g				
2,3-butanedione	10g				
2,3-dimethylpentane	<25g				
2,3,4-trimethylpentane	5g				
2,4-dimethylpentane	<5g				
3-bromo pentane	25g				
3-hydroxy-2-butanone	50g				
3-methyl-2-butanol	100ml				
3-methyl-2-butenol	5ml				
3,4-hexanedione	25g				

acetaldehyde	<250g	3	4	2	
acetic acid	1ml				
acetic anhydride	0.75kg				
acetol	10g				
acetone	<500ml	1	3	0	
acetonitrile	<2 pt	4	3	2	
acrolein	5g				
acryloyl chloride	100g				
benzaldehyde	5g				
benzoic anhydride	200g				
benzyl bromide	100g				
t-butyl hydroperoxide	100ml				
i-butyl nitrate	90ml				
i-butyraldehyde	100ml				
n-butyraldehyde	100ml				
i-butyric anhydride	500ml				
n-butyric anhydride	150ml				
chloroacetic anhydride	20g				
chloroacetyl chloride	10g				
chlorodifluoroacetic anhyd.	25g				
crotonic anhydride	100g				
cyclohexane	<100ml	1	3	0	
cyclohexyl bromide	100g				
cyclopropane	<25g	1	3	0	
decyl aldehyde	5g				
dichloroacetic anhydride	5g				
ethyl hexyl nitrate	1L				
ethyl nitrate	10g				
glycolaldehyde	5g				
glycolic acid	50g				
hydrochloric acid 37%	500ml				
hydrogen peroxide 30%	300ml				

hydrogen peroxide 50%	1L				
R-(+)-limonene	1ml				
methacrolein	<50g				
methacrylic anhydride	75ml				
methacrylyl chloride	100ml				
methanesulfonic acid	100ml				
methanesulfonyl chloride	5ml				
methyl tertiarybutyl ether	100ml				
methyl vinyl ketone	<100ml	4	3	2	
n-pentane	<1 gal				
n-pentane	<1 qt				
nitric acid 70%	1L	3	0	0	
nonanal					
2,3-pentandione	25g				
i-pentyl nitrate	20g				
cis-piperylene	1g				
trans-piperylene	1g				
poly-phosphoric acid	100ml				
propionic anhydride	100ml				
propionaldehyde	<100ml	1	4	0	
i-propyl nitrate	75g				
n-propyl nitrate	250g				
pyruvic acid 40%	25g				
sulfuric acid, conc.	500ml				
tetrachloro ethylene	25ml				
p-tolualdehyde	5g				
toluene	<1pt	2	3	0	
trichloroacetic anhydride	125g	3	3	1	
tridecafluoro-1,1,2,2, tetra- hydrooctyl-1-trichloro silane	100g				
trifluoroacetald-methyl	10g				

hemiacetal					
trifluoroacetic anhydride	50g				
vinyl acetate	25ml				

Lab 1A206 FridgeB Paul Goldan Bill Kuster Jim Roberts Chemical	Amount	Health hazard	Fire hazard	Reactivity	Specific hazard
1,1,1-Trichloroethane					
1,2,3-Trimethylbenzene ("aromatic" can)	1g				
1,2,4-Trimethylbenzene ("aromatic" can)	5g				
1,3,5-Trimethylbenzene ("aromatic" can)					
1,3-Butadiene	100g				
2,2-Dimethylpropane	100g				
2-Propanol	100g				
Acetaldehyde	200g				
Acetol	5g				
Acetonitrile	250g				
Alkyl nitrate stds. (syringe bottles)	1g x 10				
Benzaldehyde	1g				
Benzene	150g x 2				
c-3-hexen-1-al (glass jar)	5g				
c-3-hexen-1-ol (glass jar)	5g x 2				
c-9-octadecanoic acid	5g				
Chlorocarbon std. mix (13 cfc's in MeOH)	1g				
c-Pinonic acid	5g				
Cumene ("aromatic" can)	1g				
Cyclohexane	100g				
Cyclopropane	25g				
Decane	1g				
Glutaric acid	25g				
Glycoaldehyde dimer	1g				
Glyoxal	5g				
Heptane	1000g				
hexenal (glass jar)	1g				
Iodine	125g				
Isoprene	100g x 2				

Isopropyl Nitrate	250g
Methanol	200g
Methylcyclohexane	100g
m-Ethyltoluene ("aromatic" can)	1g
Methylvinylketone	25g
MTBE	1g
m-xylene ("aromatic" can)	1g
Nitronium Tetrafluoroborate	5g x3
n-Propanol	250g
o-ethyltoluene ("aromatic" can)	1g
o-xylene ("aromatic" can)	1g
p-Cymene	500g
p-ethyltoluene ("aromatic" can)	1g
Propylbenzene	25g
Pyruvic acid	25g
Silver Nitrate	10g
Styrene("aromatic" can)	1g
t,t-2,4-Hexadien-1-ol	5g
t-2-hexen-1-ol(glass jar)	5g
t-2-hexenal (glass jar)	5g
t-2-Hexene	1g
t-3-hexen-1-ol(glass jar)	5g
Toluene	200g

Lab 1A204 Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
H ₂		0	4	0	
SF ₆					
He					
O ₂		3	0	0	OX
N ₂					
CH ₃ OH w/laser dye (2 liter)		1	3	0	
.16% F ₂		4	0	4	No water
Jim Burkholder					
He					
Laser premix .17% F ₂					
N ₂					
HCl .16% laser premix small					
Dioxane-2 liter laser dye solvent					
CO lecture bottle					
F ₂ 0.155% laser premix					
Glass bulb D ₂ S in N ₂					
Glassbulb DMDS in N ₂					
CO in N ₂					
DMDS in N ₂					
OCS in He					
CH ₃ SD					
CH ₃ SH					
Ranajit Talukdar					
H ₂					

He					
O ₂					
Air					
N ₂					
CO					
Ne/He (70:30)					
H ₂ O ₂ 90%	10ml				
H ₂ O ¹⁸	25g				
H ₂ SO ₄ (75%)	150 ml				
HF 5%	25 ml				
D ₂ O	<20ml				
		3	3	3	OX

Lab 1A208 Rich McLaughlin Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
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Hydrogen	Lecture bottle				
Oxygen	Lecture bottle				
Chrome Plating solution	<1L				
1:5 Nitric Acid:Water	100ml				
Acetone	<6L				
Alcohol, ethyl	<1L				
Brass Anti-tarnish	<4L				
Bright dip	2L				
Chocolate on Brown Brass	2L				
Copper plating bath, Rochelle Salts	<0.5L				
Cupric Carbonate	1lb				
Cupric Nitrate	1lb				
Cupric cyanide	1lb				
Electro polish sol'n	<4L				
Ethanol	10gal				
Flexible Colloidon	1pt				
Heptane	1L				
Hexane	4L				
Hydrochloric Acid	4L				
Kerosene	5gal				
Kovar Cleaning sol'n (etching)	1L				
Kovar Cleaning sol'n (non- etching)	1L				

Mercury	3lb				
Methyl Ethyl Ketone	4L				
NI strike	1L				
Nickelous Oxide	1L				
Nickelous Sulfate	1lb				
Nitric acid	8lbs				
Platinum chloride sol'n	300ml				
Potassium cyanide	1lb				
Potassium permanganate	1lb				
Rochelle salts	0.5lb				
Silver cyanide sol'n	500ml				
Silver cyanide	1lb				
Silver plating bath	2L				
Silver Strike bath	1L				
Sodium bicarbonate	1lb				
Sodium cyanide	2lb				
Sodium dichromate	1lb				
Sodium hydroxide	2.5kg				
Sodium nitrite	1lb				
Sulfuric acid	9lbs				
Sulfuric/chromic acid	1L				
Talc	1lb				
Toluene	8pts				
Toluene	4L				
Trichloroethane	2qt				
Trichloroethane	1qt				
Trichloroethylene	4L				
Uranium	5g				
Watts bath	1L				
Cu-5 Ni plate	1L				

Lab 1A209 Eric Williams Chemical		Health hazard	Fire hazard	Reactivity	Specific Hazard
Air	3 x 150 cf	0	0	0	
Ammonia in N2	1 x 30 cf	2	0	0	
Carbon monoxide	1 x 30 cf	3	4	4	
Carbon monoxide and sulfur dioxide in Air	1 x 50 cf	0	0	0	
Carbon monoxide and sulfur dioxide in N2	2 x 150 cf 1 x 50 cf	0	0	0	
Carbon dioxide in Air	1 x 150 cf 6 x 50 cf	0	0	0	
Magnesium perchlorate	<500 g	2	2	2	
Methanol	<4 liter	2	4	0	
Nitric oxide in N2	4 x 150 cf 3 x 50 cf 1 x 30 cf	0	0	0	
NO, pure, 2 lbs		4			
Nitrogen	1 x 220 cf 1 x 50 cf	0	0	0	
Oxygen	2 x 220 cf	0	3	2	Oxidizer
Platinum on alumina	200 g	1	0	0	
Platinum alloy, liquid	<100 g	2	2	0	Possible carcinogen
Soda lime	<500 g	2	0	2	Corrosive; reacts with water
Vacuum pump oil, (fluorinated polyether)	<1000 g	1	0	0	

Lab 1A211 Tom Ryerson Tara Fortin Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
CO lecture bottles	Lecture	3	4	0	
O ₂	A size	3	0	0	OX
He	A size				
N ₂	A size				
NO 1ppm in N ₂	C size	3	0	0	
NO, pure, 10 lbs	K size	4			
20 ppm HCN in N ₂	A size	4	4	2	
Air					
5 ppmv H ₂ S in N ₂	C size				
Pure CO	B size				
Pure NO	A size				OX
Dichlorodifluoromethane	C size				
Hexanes	4 liter	1	3	0	
Methanol	4 liter	1	3	0	
Ethanol	1 liter				
Acetone	4 liter	1	3	0	
Chloroform	1 liter	2	0	0	
Isopropyl alcohol	500 ml				
Purafil CP blend	1000 g				
Zinc sulfide	100 g				
Magnesium perchlorate	100 g				
Activated charcoal	250 g				
Potassium iodide	25 g				
Glycerol	100 ml				
Sodium carbonate	500 g				
Ammonium sulfate	500 g				
0.5% Pd on alumina	500 g				

Drierite	500 g				
Molecular sieve	100 g				
Water	4 liter				
Caffeine	50 mg				

1A212 John Holloway Harald Stark Chemical	Number /size (cu ft)	Health hazard	Fire hazard	Reactivity	Specific hazard
Compressed gases:					
CO2 in Ar, 0.25%	3/150 1/30				
CO in N2 (= < 100 ppm)	3/30				
CO in air (10 ppm)	1/150 2/50 1/30				
SO2 in N2 (10 ppm)	3/30				
Air	1/200				
N2	1/50				
He	1/30				
Ar	1/30				
KMnO4 on zeolite	ca. 1 kg				
Methanol	1	1	3	0	
Isopropyl alcohol	1	1	3	0	
acetone	1	1	3	0	

1A213 Andy Neuman <u>John B Nowak</u> Chemical	Amount	Health Hazard	Fire Hazard	Reactivity	Specific Hazard
N ₂	8-10 cylinders	0	0	0	
Air	2 cylinders	0	0	0	
NH ₃ in N ₂ (< 10 ppm)	3 cylinders	3	1	0	
SO ₂ in N ₂ (4.98 ppm)	1 cylinder	1	0	0	
HF in N ₂ (100 ppm)	1 cylinder	3	0	2	
Isoprene in N ₂ (10 ppm)	1 cylinder	1	0	1	
Acetone in N ₂ (<5%)	2 cylinders	1	0	0	
SiF ₄	LB	3	0	2	
SF ₆	LB	1	0	0	
Ammonia Anhydrous	LB	3	1	0	
Dimethyl Ether	LB	2	4	2	
Ethanol	< 4 L	0	3	0	
Phosphoric Acid	< 1 L	3	0	0	
Acetone	2 x 4 L	1	3	0	
SO ₃	?	3	0	0	
Fuming sulfuric	25 g	3	0	2	
Formic Acid	500 ml	3	2	0	
CCl ₄	100 ml	3	0	1	
1.3-butadiene	100 g	2	4	2	
Ammonium hydroxide	2 L	3	0	0	
Benzene	1 L	2	3	0	
Sodium hydroxide	< 1 L	3	0	1	
Iron (III) sulfate	100 g	1	0	1	

Methanol	4 L, 2 x 500 ml	1	3	0	
Isopropyl alcohol	4 L	1	3	0	
Glycerin	4 x 500 ml	1	1	0	
Manganese perchlorite	500 g	1	0	0	OX
Tridecafluoro-1,1,2,2- tetrahydrooctyl 1- dimethylchlorosilane	<50 ml				
HCl	< 4 L	3	0	1	
H ₂ SO ₄	< 4 L	3	0	2	
Citric Acid, anhydrous	500 g	3	1	0	
Silicon phosphates (Purma Pure)	< 1000 cc	2	0	0	
Sodium Bicarbonate	2 lbs	2	0	0	

Room: 1A214

Atmospheric Chemical Kinetics Group

Material	Amount	Hazard Ratings				Date	Date
		Health	Fire	Reactivity	Specific	Purchased	Inventory
He Cylinder (UHP)	1A						11/04
N ₂ Cylinder (NIST)	1A						11/04
N ₂ O (UHP) Matheson; # RR 46339	2' Tall						11/04
Laser Pre-mix Cylinder F ₂ /Kr/Ne Lextra Spectra Gases; # 181934Y	1A						11/04
Laser Pre-mix Cylinder F ₂ 0.25%/Xe 0.33%/Ne Lextra Spectra Gases; # 2093167Y	2' Tall						11/04
N ₂ Cylinder (NIST)	1A						11/04
Ar Cylinder (UHP) Scientific Gases; # 1A-015733	1A						11/04
Ar Cylinder (UHP) Scientific Gases; # 1C 2690	1A						11/04
Ethylene Cylinder Scientific Gases; # C40-6057	2' Tall						11/04

O ₂ (0.5%)/ He Mixture Cylinder Scott; # 40-2167	2' Tall						11/04
N ₂ O Cylinder (UHP) Matheson; # RR 20643	Small						11/04
N ₂ Cylinder (NIST)	1A						11/04
N ₂ Cylinder (UHP) (2)	1A						11/04
H ₂ (1%)/ He Mixture Cylinder Sample	1A						11/04
He Cylinder (UHP)	1A						11/04
Ozone Sample Stored:vacuum on Silica Gel/ 195 K							11/04
“Cabinet”							
Propionic Acid Sample stored under vacuum	< 10 g						11/04
I ₂ crystals	< 125 g						11/04
HgO	< 100 g						11/04
“Cooler Box”							

Cl ₂ O Sample Stored under vacuum/195 K	< 10 g						11/04
ClONO ₂ Sample Stored under vacuum/195 K	< 5 g						11/04

Lab1A216 Ned Lovejoy		Health hazard	Fire hazard	Reactivity	Specific hazard
Chemical					
N ₂					
He					
He					
N ₂					
O ₂		3	0	0	OX
SF ₆		0	0	0	
H ₂ SO ₄	<100 ml	3	0	2	No water
Ethylene glycol		1	1	0	
Methanol	8 liters	1	3	0	
NH ₃ cyclinder		3	1	0	
SF ₆ cylinder		0	0	0	
Ethanol, methanol	5 cm ³	1	3	0	OX
CS ₂	2 cm ³				
I ₂	1g				
Air					
H ₂					
N ₂					
Acetone	<5 ml	1	3	0	

Room: 1A217

Atmospheric Chemical Kinetics Group

Material	Amount	Hazard Ratings			Date	Date	
		Health	Fire	Reactivity			Specific
He Cylinder (UHP)	1A						11/04
N ₂ Cylinder (UHP)	1A						11/04
N ₂ Cylinder (Commercial grade)	1A						11/04
O ₂ Cylinder (Commercial grade)	1A						11/04
H ₂ Cylinder (UHP) (Scott; # K-024116)	1A						11/04
"Fume Hood Cabinets"							
Potassium Permanganate (crystals)	1 lb						11/04
Potassium Permanganate (Standard Solution) (2)	500 ml						11/04
Sulfuric Acid (2)	1 Gal						11/04
Nitric Acid	1 Gal						11/04
Phosphoric Acid	1 Gal						11/04
Hydrochloric Acid	1 Gal						11/04
Acetic Acid Glacial	1 Gal						11/04
Sodium Hydroxide (Standard Solution)	500 ml						11/04
Ethyl Alcohol	1 Gal						11/04
Hexanes	500 ml						11/04
Methanol	5 Gal						11/04
Kerosene	1 Gal						11/04
Kerosene	500 ml						11/04
Aircraft Fuel	1 Gal						11/04

“Chemical Cabinet”							
Methyl Alcohol (HPLC) (3)	4 L						11/04
Methyl Alcohol (HPLC) (2)	1 L						11/04
Ethyl Alcohol (HPLC) (3)	4 L						11/04
Ethyl Alcohol (HPLC) (2)	1 L						11/04
Ethyl Alcohol (ACS Grade) (2)	1 Gal						11/04
Isopropanol (ACS Grade)	1 Gal						11/04
Ethylene Glycol (2)	4 L						11/04
Ethyl Acetate	4 L						11/04
Methyl Sulfoxide	2 L						11/04
1,4-Dioxane (2)	1 L						11/04
1-Propanol (99.9%)	1 L						11/04
2-Propanol (99.5%)	1 L						11/04
Acetone (HPLC)	1 L						11/04
Petroleum Ether (3)	500 ml						11/04
Benzene Benzol	250 ml						11/04
Isobutanol	1 L						11/04
H ₂ ¹⁸ O	1 g						11/04
H ₂ ¹⁸ O sample	< 2 g						11/04
HDO Sample	< 2 g						11/04
D ₂ O (Isotec, 99.9%) (2)	100 g						11/04
D ₂ O (Bio-rad)	100 g						11/04
D ₂ O (Aldrich, 99.9%)	250 g						11/04
Laser Dye Solutions	Multiple bottles						
Chemical Waste Containers (2)	5 Gal						
“Refrigerator”							

Δ^3 -Carene sample	< 1g						11/04
1,2-Dichloro-2-Iodo-1,1,2 Trifluoroethane (2)	25 g						11/04
1-Bromopropane	100 ml						11/04
1-Bromopropane 3,3,3-d3 (Isotec)	3.2 g						11/04
1-Hepten-3-ol (99%)	5 ml						11/04
1-Iodo-1-(Trifluoromethoxy)-Tetrafluoroethane	1 g						11/04
1-Iodo-2-Methylpropane (97%)	25 g						11/04
1-Methyl-1-Phylhydrazine (97%)	5 g						11/04
1-Penten-3-ol (99%)	25 g						11/04
1-Tridecanol (97%)	25 g						11/04
1-Tridecene (99%)	5 g						11/04
1,2-Dichloroethylene (cis) (97%) (Ampule)	10 g						11/04
2,2-Dichloroethanol (97%)	5 ml						11/04
2,2-Dichloroethanol (97%)	10 g						11/04
2-Butyne (99%) (Ampule)	1 g						11/04
2-Bromopropane	50 g						11/04
2-Chloroethanol (99%)	50 g						11/04
2-Iodoethanol	5 g						11/04
2-Iodo-1,1,1-trifluoroethane	25 g						11/04
2-Iodopropane	100 g						11/04
2-Tridecanone (99%)	25 g						11/04
3-Buten-1-ol (96%)	25 g						11/04
3-Buten-2-ol (97%)	5 g						11/04
3-Hexen-1-al (cis)	< 1 ml						11/04
3-Methyl-2-buten-1-ol (MBO)	100 ml						11/04
3-Methyl-2-buten-1-ol (MBO) several bottles to be disposed off							11/04
4-Hexen-1-ol (97%)	5 g						11/04
5-Hexen-1-ol (99%)	5 g						11/04
Acetaldehyde (99.5%) (2)	500 ml						11/04
Acetic Acid	< 10 g						11/04
Acetic Acid sample	< 10 ml						11/04

Acetic anhydride (CH ₃ CO) ₂ O	1 L						11/04
Acetone-d6 (2)	10 g						11/04
Adipic Acid	25 g						11/04
Adipic Acid – sample	< 5 g						11/04
Bromoacetone (Ampule)	100 mg						11/04
Bromine	100 g						11/04
Bromoform (99+%) (3)	50 g						11/04
Butyl nitrite	25 g						11/04
Carbon disulfide	500 ml						11/04
Chloral	1 L						11/04
Crotonaldehyde (99+ %)	100 ml						11/04
Crotyl alcohol (97%)	25 ml						11/04
Cyclohexyl iodide (98%)	25 g						11/04
Decafluoriodopentane	250 ml						11/04
Decafluoropentane	250 ml						11/04
Decanoic acid, 99+%)	2.5 g						11/04
Dibromoethane (99+%)	50 g						11/04
Dibromomethane	50 g						11/04
Diiodomethane (99%)	100 g						11/04
Diiodomethane (99%)	25 g						11/04
Dimethylsulfate	200 ml						11/04
Ethyltrifluoroacetate	25 g						11/04
Fluorosulfonic acid	25 ml						11/04
Flormaldehyde (37% in water)	25 ml						11/04
Formic acid	100 g						11/04
Glycoladehyde dimer	5 g						11/04
Heptanal (95%)	2 ml						11/04
Hexanal (98%)	2 ml						11/04
Hydrazine (Ampule)	2 ml						11/04
Hydroxyl amine	10 ml						11/04
Iodine monochloride (98%)	5 g						11/04
Iodotrifluoroethylene	25 g						11/04

Iodomethane (99%)	100 g						11/04
Isoprene	100 g						11/04
Isopropyl nitrite (97%)	100 ml						11/04
Isopropyl nitrite (95%)	5 ml						11/04
Methacrolein (95%) (2)	5 ml						11/04
Methacrolein (95%)	100 ml						11/04
Methacrylic anhydride	100 ml						11/04
Methyl sulfide (99%)	25 ml						11/04
Methyl sulfide-d6 (Ampule) (2)	1 g						11/04
Methyl disulfide (99%)	25 ml						11/04
Methyl disulfide (99%)	100 g						11/04
Methyl sulfoxide-d (Ampule)	25 g						11/04
n-Decyl aldehyde	25 g						11/04
Neopentyl iodide	25 g						11/04
Nitromethane	100 ml						11/04
Nitromethane-d3 (99%) (Ampule)	25 g						11/04
Nitronium tetrafluoroborate (2)	10 g						11/04
Nonanal (nonyl aldehyde) (95%)	100 g						11/04
Nonanoic acid (96%)	2.5 ml						11/04
Norpinic Acid	50 mg						11/04
Octanal (Octyl aldehyde) 99%	2 ml						11/04
Octanoic acid (99.5%)	2.5 ml						11/04
Peracetic acid	100 ml						11/04
Perfluorobutylethylene	< 50 ml						11/04
Perfluorobutylethylene	500 ml						11/04
Pinene (a)	100 ml						11/04
Pinene (a)	250 ml						11/04
Pinene (b)	250 ml						11/04
Pinic Acid	250 mg						11/04
Pinic Acid - sample	<10 mg						11/04
Propionaldehyde	250 ml						11/04
Propionic Acid (99.5%)	100 ml						11/04

Tetrachloroethylene (99.8%) (2)	100 ml						11/04
Tetrafluoroiodoethane (5)	10 ml						11/04
Trans-2-Hexenal (98%) (2)	25 g						11/04
Trans-2-Heptenal (97%)	5 g						11/04
Trans-2-Hexen-1-ol (96%) (2)	5 g						11/04
Trans-2-Penten-1-ol (95%)	5 ml						11/04
Trans-2-Pentenal (95%)	5 g						11/04
Trans-3-Hexen-1-ol (98%)	5 g						11/04
Trichloroethylene (99+%)	100 ml						11/04
Trichloroethylene (99+%) sample	50 ml						11/04
Trichloroethylene (99+%) sample	50 ml						11/04
Tridecanal (tech grade)	5 g						11/04
Tridecanoic acid (98%)	2 g						11/04
Trifluoroacetic anhydride	50 ml						11/04
Undecanal (undecylic aldehyde) (97%)	2 g						11/04
Urea Hydrogen peroxide	100 g						11/04
“Freezer Compartment”							
DNO ₃ (Cambridge Isotope)	25 g						11/04
DNO ₃ (Isotec) (2)	25 g						11/04
Linoleic Acid (Sigma)	< 25 g						11/04
Linoleic Acid methyl ester (Ampule)	25 g						11/04
Octadecadienic Acid Conjugated methyl ester (Ampule)	1 g						11/04
PAN (CH ₃ C(O)OONO ₂) Sample Synthesized 2/02	< 1 g						11/04

2A203 Ken Kelly Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
Uranium metal	100 g	3	4	4	Radioactive No water
H ₂	1 liter	0	4	0	
Compressed air					
O ₂ cylinder		3	0	0	OX
Methanol	4 l	1	3	0	
Ethanol	4 liter	0	3	0	
Freons		1	0	0	
		3	4	4	Radioactive No water OX

2A302 Fahey CIMS Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
2-propanol		1	3	0	
Acetone		1	3	0	
Ammonia		3	1	0	
Ammonium hydroxide		3	1	2	
CaSO ₄		1	0	0	
Compressed air					
Ethyl alcohol		0	3	0	
Hexanes		1	3	0	
Methyl alcohol		1	3	0	
Nitric acid		3	0	0	
N ₂					
O ₂		3	0	0	OX
SiF ₄		3	0	2	No water
Sodium Cyanide		3	0	2	
Sodium hydroxide		3	0	1	
SF ₆		0	0	0	
Toluene		2	3	0	
trichloroethylene		2	1	0	
		3	3	2	OX

2A303 Fahey Stage Area Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
CO lots (in ventilated cabinet)		3	4	0	

Compressed air					
HCN (in hood) 5.5 ppm		4	4	2	
NO 1%		3	0	0	OX
NO in N ₂ (ppm mixture)		3	0	0	OX
N ₂					
O ₂		3	0	0	OX
		3	4	0	OX

2A304 Fahey Noy Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
Acetone		1	3	0	
Compressed Air					
ethanol		0	3	0	
NO pure?		3	0	0	OX
NO in N ₂ (ppm mixture)		3	0	0	OX
N ₂					
O ₂		3	0	0	OX
		3	3	0	OX

3A302 Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
Acetone	<250ml	1	3	0	
N ₂					
Isopropanol	0.5 liter	1	3	0	
Oleic acid		0	1	0	
Sebacic acid (di(20ethylhexyl ester)	<500ml				
Sulfuric acid	< 3liters	3	0	2	No water
		3	0	2	

3A202

Ann Middlebrook

<i>chemical</i>	<i>quantity</i>	<i>health hazard</i>	<i>fire hazard</i>	<i>reactivity</i>	<i>specific hazard</i>
acetone	< 100 ml	1	4	0	
ammonium acetate	< 10 g	1	0	1	
ammonium formate	< 50 g	1	1	0	
ammonium nitrate	< 50 g	1	0	3	oxidizer
ammonium oxalate	< 5 g	3	0	0	
ammonium sulfate	< 50 g	0	0	0	
butanol (1-butanol)	< 5 l	1	3	0	
citric acid	< 5 g	2	0	0	
glutaric acid	25 g	1	0	1	
instant ocean	< 7 kg	1	0	0	
iso-propyl alcohol (2-propanol)	< 8 l	1	4	0	
maleic acid	5 g	2	0	0	
malic acid	50 g	2	0	0	
malonic acid	5 g	2	1	0	
methyl alcohol	< 7 l	3	4	0	
methyl succinic acid	25 g	2	0	0	
oleic acid	< 5 g	0	1	0	
polystyrene latex spheres (various sizes in water)	< 150 ml	0	0	0	
sebacic acid di(2-ethylhexyl) ester	< 500 ml	1	1	0	
sodium nitrate	< 500 g	2	0	1	oxidizer

sodium sulfate	< 500 g	0	0	0	
sulfuric acid	< 1.5 l	3	0	2	no water
synthetic sea water	< 500 ml	0	0	0	
ultra zero air, compressed	2 cylinders				

3A207 Dan Murphy Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
paint thinners	2 L				
Acetone	< 4 liter	1	3	0	
Ethanol	< 50 ml	0	3	0	
spray paints	~ 3 liter				
Isopropanol	< 4 liter	1	3	0	
Methanol	2 liter	1	3	0	
Propanol	< 1 liter	1	3	0	
pump oil	8 liter				
aluminum cutting fluid	1 liter				
deionized water	2 liter				
strippable cleaner	500 ml				
propane	2 bottles				
silver iodide	100g				
CaCl ₂	500 g	1	0	0	
ammonium iodide	100g				
lithium chloride	100g				
prime coat (with heptane)	4 liter				
Cr powder	50 g				
paint reducer (with methyl ethyl ketones)	2 liter				
paint primer (with xylene)	1 liter				
HiCat 85	4 liter				
		1	3	1	

3A204 Dan Murphy Chemical		Health hazard	Fire hazard	Reactivity	Specific hazard
Acetone	<500 ml	1	3	0	
Ammonium chloride	<500 g	1	0	0	OX
Ammonium sulfate	<500 g	0	0	0	
Ammonium nitrate	<500 g	0	0	3	OX
Ammonium bisulfite	< 500g	2	0	0	
N ₂ compressed					
Glycerol	< 500ml				
Isoamylamine	< 10g				
Methanesulfonic acid	< 100ml				
Methanol	< 100ml	1	3	0	
Methyl salicylate	<100 g	1	1	0	
N,N-dimethyl ethanolamine	< 5 ml	2	2	0	
Nonacosane	<100m g				
Oxalic acid	<500g	3	1	0	
Potassium chloride	< 500 g				
Potassium iodide	< 500 g	1	0	0	
Potassium sulfate	< 500 g				
Potassium nitrate	< 500 g				
Sodium chloride	< 25 g				
Sodium iodide	< 500 g				
Sodium nitrate	< 500 g	2	0	1	OX
Sodium bicarbonate	< 2 kg				

isoclean	300 ml	1	0	0	
Stearic acid	< 25 g				
Synthetic sea water	< 500ml				
spray paint	1 liter				
Compressed Neon with 0.2% fluorine	2 cylinder	2	2	0	

Atmospheric chemical inventories

A309 yellow cabinet

Adding chemicals-add them to the list in the proper location

Removing chemicals-list your name in the third column

shelf 1 location 1		boiling pt °C	freezing pt	
1,1,1,2,3,4,4,5,5,5-decafluoropentane	500 ml			
C₆F₁₄	500 ml			
1,1,2,2,3,3,4,4-octafluorobutane	500ml			
ethane 2-2 dichloro 1,1, trifluoro	500 ml	88°		
perfluoro hexane	100 g			
dodeca fluoropentane	100 g			

shelf 1 location 2		boiling pt	freezing pt	
1,1,2-trichloro trifluoroethane	25 g			

1,1,1, trichloro trifluoroethane	50 g			
2-bromo-2-chloro 1,1,1 trifluoroethane	(10) 25 g			
2 bromo-1,1-difluoroethane	25 g			
1 bromo 2 fluoroethane	25 g			
2,2,2 trifluoroethanol	250 g			
n C₅F₁₂	500 ml			

shelf 1 location 3		boiling pt	freezing pt	
methyl chloroform	1 liter	74°C	-32.5	
1,1,1 trichloroethane	1 liter	74°C		
carbon tetrachloride	1 liter	76°C		
cis-1,2-dichloroethene	250 g			
trans 1-2-dichloroethylene	25 g			
oxalyl chloride	5 g	63°C		

shelf 1 location 4		boiling pt	freezing pt	

bromoethane	(3) 50 g	37-40°C		
bromoform	230 ml			
bromine	(2) 100 g			
cyclopentyl bromide	25 g	59°C		

shelf 1 location 5		boiling pt	freezing pt	
iodine	100 ml	185°C		
diiodomethane	25 g			
sec amyl iodide	25 g			
2 iodo-2methylpropane	25 g			
iodocyclopentane	25g			
2 iodo propane	5 g			

shelf 2 location 1		boiling pt	freezing pt	
CH₃OD	(17) 50 gm			

shelf 2 location 2		boiling pt	freezing pt	
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D₂O	(8) 100 gm			
D₂O	(1) 250 gm			

shelf 2 location 3		boiling pt	freezing pt	
¹⁸O₂	1 gm			
benzene D-6	(4) 0.5 ml	80°C		
D₂O₂ 50% in D₂O	5 gm			
D₂SO₄ in D₂O	10 ml			
CD₃OD	10 ml			
CD₃CD₂OD	5 gm			
pyridine D-5	5 gm	115°C		

shelf 2 location 4 glass bulbs		boiling pt	freezing pt	
H₂¹⁸O				
HDO				
CH₃OD				
¹³CH₃OH				

shelf 2 location 5		boiling pt	freezing pt	
formic acid OD	5 gm	100°C		

shelf 3 location 1		boiling pt	freezing pt	
hexadiene	(4) 25 g	76°C		
3-methyl 1 butene	100 g	109°C		
cyclopentene	5 ml	49°C		

shelf 3 location 2		boiling pt	freezing pt	
Formic acid	100 g	100°C		
dichloroacetic acid	100 g	193°C		
acetic acid	25 ml	118°C		
nitric acid (high purity)	100 ml	83°C		
Sulfur trioxide	80 g		35°C	

shelf 3 location 3		boiling pt	freezing pt	
cyclohexanone	500 g	7°C		
2 butanone	100 ml	59°C		
3 pentanone	100 ml	68°C		
2 pentanone	100 ml	76°C		

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shelf 3 location 4		boiling pt	freezing pt	
butyraldehyde	2 ml	75°C		
4-hydroxybenzaldehyde		116°C mp		
n propyl nitrate	25 g	110°C		
silver nitrate	100 g	212 mp		
pyridine	500 ml	115°C		

shelf 4 location 1		boiling pt	freezing pt	
glycerol anhydrous	500 ml	290°C		
2 propanol	1 qt	80-90°C		
iso propyl alcohol	1 liter	53°C		
1 propyl alcohol	1 liter	97°C		
benzyl alcohol	500 ml	58°C		
2 ethyl butanol	100 ml			
t BuOH	1 liter			
2 ethyl alcohol	1 pt			

3 heptanol	25 ml			

shelf 4 location 2		boiling pt	freezing pt	
hexane (UV)	500 ml	69°C		
potassium permanganate	500 ml			
sodium hydroxide	500 ml	102°C		
acetonitrile	2 pt	81°C		

shelf 5 location 1		boiling pt	freezing pt	
Toluene	4 liter	110°C		
CFCl₃	4 liter			
oxylene C₆H₄(CH₃)₂	500 g			
Kerosene	1 liter	175°C		

shelf 5 location 2		boiling pt	freezing pt	
carbon disulfide	200 ml	28°C		
dimethyl sulfoxide	500 ml	20°C		
toluene	473 ml	110°C		

shelf 5 location 3		boiling pt	freezing pt	
1,4-dioxane OCH₂CH₂OCH₂CH₂	1 liter	12°C		
1,4 dioxane OCH₂CH₂OCH₂CH₂	500 ml	12°C		

ISOTOPES IN 1A309 yellow cabinet

shelf 2 location 1		
CH₃OD	(17) 50 gm	
shelf 2 location 2		
D₂O	(8) 100 gm	
D₂O	(1) 250 gm	

shelf 2 location 3		
$^{18}\text{O}_2$	1 gm	
benzene D-6	(4) 0.5 ml	
D_2O_2 50% in D_2O	5 gm	
D_2SO_4 in D_2O	10 ml	
CD_3OD	10 ml	
$\text{CD}_3\text{CD}_2\text{OD}$	5 gm	
pyridine D-5	5 gm	
shelf 2 location 4 glass bulbs		
H_2^{18}O		
HDO		
CH_3OD		
$^{13}\text{CH}_3\text{OH}$		
shelf 2 location 5		
formic acid OD	5 gm	

ISOTOPES IN 1 LITER GLASS CONTAINERS IN GA103

HD	liter glass bottle	GA103
CD ₄	2 - liter glass bottles	GA103
C ₂ D ₄	1 liter glass bottle	GA103
¹⁵ N ₂	2	GA103
¹⁸ O ₂		GA103

ISOTOPES IN 1A302 yellow cabinet bottom shelf combination 1776

D ₂		
DCI	lecture bottle w/regulator	
CH ₃ D	lecture bottle w/regulator	

ISOTOPES IN OH LIF CABINET-talk to RKT first

H ₂ ¹⁸ O	(4) 6.25 g	OH cabinet

CHEMICALS IN GA 101
SOME ISOTOPES ON THE TOP FEW SHELVES

CD₄ (2 1-liter glass)
 HD 1 liter
 Ethylene d-4 1liter
¹⁵N₂ 1 liter
¹⁸O₂ 1 liter
¹⁵NO 1 liter

CHEMICAL	amount	CAS NO	formula	health	fire	React.	Special situations
sodium L-ascorbate	<50 g	134-03-2					
BORIC ACID (2)	1 lb	10043-35-3	H ₃ BO ₃	0	0	0	
CALCIUM CHLORIDE ANHYDROUS	2 lb	10043-52-4	CaCl ₂	1	0	0	
CERIUM OXIDE (polishing)	15 g	1306-38-3	CeO ₂				
Chloroacetic acid	<100 g	79-11-8	ClCH ₂ CO ₂ H	3	1	0	Toxic, corrosive
GLUCONIC ACID CALCIUM SALT	1 kg	299-28-5	[HOCH ₂ [CH(OH)] ₄ (CO) ₂] ₂ Ca				
GLYOXAL	100 g	107-22-2					
Iodine (sublimed)	125 g						
Magnesium sulfate		7487-88-9	MgSO ₄				

MERCURIC OXIDE	100 g	21908-53-2	HgO	3	0	0	Poison
MERCURIC OXIDE	100 g	21908-53-2	HgO	3	0	0	poison
Hg	40 lb	7439-97-6	Hg	1	0	0	corrosive
Methyl red	10 g						
PARA FORMALDEHYDE	500 g	300525-89-4	(CH ₂ O) _n	3	1	0	
POTASSIUM BROMIDE	50 g		KBr				
POTASSIUM CHLORIDE	1 lb	7447-40-7	KCl				
POTASSIUM IODIDE	1 lb	7681-11-0	KI	1	0	0	
POTASSIUM PERMANGANATE crystal	1 lb	7722-64-7	KMnO ₄	1	0	1	OX
POTASSIUM THIOSULFATE	1 lb	10294-66-3	K ₂ S ₂ O ₃				
PHOSPHORUS PENTOXIDE (3)	500 g	1314-56-3		3	0	2	No water corrosive Highly toxic
Silver chloride	1 oz	7783-90-6	AgCl				
Silver nitrate	1 oz	7761-88-8	AgNO ₃	2	0	0	OX
SODIUM BROMIDE	500 g	7647-15-6	NaBr				
SODIUM BICARBONATE (2)	500 g	144-55-8	NaHCO ₃				
SODIUM CHLORITE (2)	1000 g	7758-19-2	NaClO ₂				
SODIUM FLUORIDE	50 g	7681-49-4	NaF	3	0	0	poison
SODIUM HYDROXIDE (3-4)	500 g	1310-73-2	NaOH				
SODIUM IODIDE	500 g	7681-82-5	NaI				
SODIUM NITRITE (2)	1 lb	7632-00-0	NaNO ₂	2	0	1	Ox

SODIUM NITRATE	25 g	7631-99-4	NaNO₃	1	0	1	OX
SODIUM THIOSULFATE pentahydrate	1500 g	10102-17-7	Na₂S₂O₂*5H₂O				
STARCH (SOLUBLE POWDER)	0.25 lb						
SULFAMIC ACID (3)	1 kg	5329-16-6	H₂NSO₃H				
SULFUR TRIOXIDE (2)	200 g	7446-11-9	SO₃				
Triacontane		638-68-6	CH₃(CH₂)₂₈CH₃				
octadecanol	5 g (2)	112-92-5	CH₂(CH₂)₁₇OH				
octadecylamine		124-30-1	CH₃(CH₂)₁₇NH₂				corrosive
SILICA GEL							
ASCARITE	500 g		8-20 mesh				
BOILING CHIPS							
CHROMOSORB			100/120 mesh				