

## Appendix A: List of Permeation Sources

List of Permeation Tubes				
1 - Propanol	2-(Ethylamino)ethanol	a - Pinene	Butyl cellosolve	Diethyl phosphite
1,1,3-Trimethoxypropane	2,3,5-Trimethylnaphthalene	Acenaphthalene	Butyl chloride	Diethyl sulfate
1,2-Propyleneimine	2,3,5-Trimethylphenol	Acetaldehyde	Butyl isocyanate	Diethylamine
1,2,4-Trichlorobenzene	2,2-Dimethylbutane	Acetamide	Butylamine	Diethyldimethylphosphoramidate
1,2,3-Trimethylbenzene	2,3-Dimethyl-2-butene	Acetic acid	B-utylbenzene	Diethylenetriamine
1,2,4-Trimethylbenzene	2,3-Dimethylphenol	Acetone	Butyraldehyde	Diethylethanolamine
1,1,1 tetrafluoroethane	2,4_Dinitrotoluene	Acetonitrile	Butyric acid	Diethylmethylphosphonothioate
1,1,1-Chlorodifluoroethane	2,4-Diaminotoluene	Acetophenone	Butyronitrile	Diisopropyl methylphosphonate
1,1,1-Dichlorofluoroethane	2,4-Lutidine	Acetylene	Camphene	Diisopropylamine
1,1,2,2-Tetrachloroethane	2,6-Diisopropylphenol	Acrolein dimethyl acetal	Carbon dioxide	Dimethoxymethane
1,1,2-Trichloroethane	2,6-Disopropylphenyl isocyanate	Acrolein	Carbon disulfide	Dimethyl disulfide
1,1,3,3-Tetramethyldisiloxane	2,6-Toluene diisocyanate	Acrylamide	Carbon monoxide	Dimethyl ether
1,1-Dichloroethane	2'-Aminoacetophenone	Acrylic acid	Carbon tetrachloride	Dimethyl ethoxysilane
1,1-Dimethylhydrazine	2-Bromopropane	Acrylonitrile	Carbonyl fluoride	Dimethyl formamide
1,2 - Propanediol	2-Butanone	Acrylonitrile-d3	Carbonyl sulfide	Dimethyl mercury
1,2 Epoxybutane	2-Butyl mercaptan	Allene	Catechol	Dimethyl methylphosphonate
1,2,3-Trichloropropane	2-Chlorethyl methyl sulfide	Allyl chloride	Cellosolve acetate	Dimethyl phosphite
1,2-Butadiene	2-Chloroethanol	Allyl isothiocyanate	Cellosolve	Dimethyl phthalate
1,2-Dichlorobenzene	2-Chloroethyl ethylsulfide	Ammonia	Chlorine	Dimethyl sulfate
1,2-Dichloroethane	2-Chloroethyl phenyl sulfide	Amyl acetate	Chlorobenzene	Dimethyl sulfide
1,2-Dichloropropane	2-Chlorophenol	Amyl alcohol	Chlorobenzene-d5	Dimethyl sulfone
1,2-Diethybenzene	2-Chloropropane	Aniline	Chlorodibromomethane	Dimethyl sulfoxide
1,2-Difluorobenzene	2-Ethylhexanol	Anthracene	Chloroform	Dimethyl trisulfide
1,2-Dimethoxyethane	2-Ethylhexyl acrylate	Argon	Chloriodomethane	Dimethylacetamide
1,2-Dimethylnaphthalene	2-Ethylimidazole	Arsenic trichloride	Chloromethyl methyl ether	Dimethylamine
1,2-Ethanedithiol	2-Ethyltoluene	Arsine	Chloropicrin	Dimethylethanolamine
1,3-Butadiene	2-Heptanone	Benzaldehyde	cis-2-Butene	Dimethylsilane
1,3-Dichlorobenzene	2-Hexanone	Benzene	Crotonaldehyde	Dioxane
1,4 Thioxane	2-Methoxybutane	Benzene-d6	cs-1,2-Dichloroethylene	Dipropylene glycol methyl ether
1,4-Diaminocyclohexane	2-Methoxyethyl ether	Benzofuran	cs-1,3-Dichloropropene	Disilane
1,4-Dichloro-2-butene	2-Methyl pentane	Benzoic acid	Cumene	Disopropyl fluorophosphate
1,4-Dichlorobenzene	2-Methyl pyrazine	Benzyl alcohol	Cyclohexane	d-Limonene
1,4-Difluorobenzene	2-Methyl-1-butanol	Benzyl chloride	Cyclohexanol	Dodecafluorocyclohexane
1,6-Dichlorohexane	2-Methylbutanal	Benzyl mercaptan	Cyclohexanone	Dodecane
1-Bromo-4-fluorobenzene	2-Methylnaphthalene	Bibenzyl	Cyclopentane	Dowtherm
1-Bromobutane	2-Nitrotoluene	Bicyclo (2.2.1) hepta-2.5-diene	Cyclopropanecarboxaldehyde	Epichlorohydrin
1-Bromopropane	2-Pentanone	Biphenyl	Decane	Ethane
1-Butene	3-(Methylthio)propionaldehyde	bis-2-Chloroethylether	Deuterium oxide	Ethanol
1-Chloro-2-methylpropane	3,5-Difluoraniline	Boron trichloride	Diacetone alcohol	Ethyl acetate
1-Methoxy propanol acetate	3-Buten-2-ol	Boron trifluoride	Dibutyl disulfide	Ethyl acetylene
1-Methoxy-2-propanol	3-Carene	B-Pinene	Dibutyl sulfide	Ethyl acrylate
1-Methoxy-2-propyl acetate	3-Cyanopyridine	Bromine	Dichlorosilane	Ethyl benzene
1-Methyl-2-propanol acetate	3-Ethyl pyridine	Bromochloromethane	Dichlorvos	Ethyl carbamate
1-Methylbutadiene	3-Methyl pyridine	Bromodichloromethane	Dicyclohexylmethylphosphonate	Ethyl chloride
1-Methylnaphthalene	3-Methyl valeric acid	Bromoform	Dicyclopentadiene	Ethyl disulfide
1-Pentene	3-Methyl-1-butanol	Bromonitromethane	Diethyl ether	Ethyl lactate
2-(2-Methoxyethoxy)ethanol	4-Vinylpyridine	Butane	Diethyl ethylphosphonate	Ethyl mercaptan
2-(Diethylamino)ethanethiol	4-Aminobiphenyl	Butanol	Diethyl malonate	Ethyl methyl ether
2-(Disopropylaminc)ethanol	4-tert-Butyltoluene	Butyl acrylate	Diethyl methylphosphonate	Ethyl methyl sulfide
	4-Vinyl cyclohexane		Diethyl methylphosphonite	

List of Permeation Tubes			
Ethyl morpholine	Hydrogen sulfide	Methyl iodide	tert-Butanol
Ethyl pyrazine	Hydrogen	Methyl isobutyl ketone	tert-Butyl chloride
Ethyl sulfide	Indan	Methyl isocyanate	tert-Butyl ethyl ether
Ethylamine	Indene	Methyl isopropyl ketone	tert-Butyl mercaptan
Ethylbenzene-d10	Iodine	Methyl isothiocyanate	tert-Butyl methyl ether
Ethylbenzene-d10	Iodoethane	Methyl mercaptan	Tetrachloroethylene
Ethyl-diethanolamine	Isoamyl acetate	Methyl methacrylate	Tetradecane
Ethylene	Isobutane	Methyl phosphonic dichloride	Tetraethyl orthosilicate
Ethylene dibromide	Isobutanol	Methyl phosphonic difluoride	Tetrahydrobenzaldehyde
Ethylene glycol	Isobutyl acetate	Methyl salicylate	Tetrahydrofuran
Ethylene oxide	Isobutyl acrylate	Methyl vinyl ketone	Tetrahydrofurfuryl alcohol
Ethylenediamine	Isobutyl chloroformate	Methylamine	Tetrahydrothiophene
Ethyleneimine	Isobutyl mercaptan	Methylaminoethanol	Tetramethylsilane
Fluorobenzene	Isobutylbenzene	Methyldiethanolamine	Thiodiglycol
Formaldehyde *	Isobutylene	Methylene bromide	Thionyl chloride
Formamide	Isobutyraldehyde	Methylene chloride	Thiophene
Formic acid	Isooctane	Monoethanolamine	Thiophosphoryl chloride
Freon 11	Isopentane	Morpholine	Toluene -2,4-diisocyanate
Freon 113	Isoprene	m-Tolualdehyde	Toluene
Freon 116	Isopropanol	n - Propyl acetate	Toluene-dp
Freon 12	Isopropyl acetate	n - Propyl mercaptan	tr-1,3-Dichloropropene
Freon 13	Isopropyl ether	N,N-Dimethylaniline	trans-Butene
Freon 21	Isopropyl mercaptan	n-Amyl acetate	Tributylamine
Freon 22	Isovaleraldehyde	Naphthalene	Trichloroethylene
Freon 114	Krypton	n-Butanol	Trichlorosilane
Furan	m - Xylene	n-Butyl acetate	Tridecane
Furfural	Malathion	n-Butyl mercaptan	Triethyl phosphite
g-Butyrolactone	Maleic anhydride	Neon	Triethylamine
Germane	m-Cresol	n-Hexene	Triethylenetetramine
Glycerol	Menthol	Nicotine	Triethylphosphate
Helium	Mesitylene	Nitric acid	Trifluoroacetic acid
Heptane	Methacrolein	Nitric acid-d	Trimethyl phosphite
Heptanenitrile	Methacrylic acid	Nitric oxide	Trimethylamine
Heptyl cyanide	Methane	Nitric-15N-acid	Trimethylsiane
Hexachloro-1,3-butadiene	Methanesulfonylfluoride	Nitrobenzene	Undecane
Hexachlorobenzene	Methanol	Nitrogen	Vanillin
Hexadecane	Methyl acetate	Nitrogen dioxide	Vinyl acetate
Hexaldehyde	Methyl acetylene	Nitrogen trifluoride	Vinyl acetylene
Hexamethylcyclotrisiloxane	Methyl acrylate	Nitrous oxide	Vinyl bromide
Hexamethyldisilazane	Methyl amine	n-Methyl pyrrolidinone	Vinyl chloride
Hexamethyldisiloxane	Methyl benzoate	N-Nitrosodimethylamine	Vinyl fluoride
Hexamethylene-1,6-disocyanate	Methyl bromide	N-Nitrosomorpholine	Vinylcyclohexene monoxide
Hexane	Methyl cellosolve	n-Nonane	Vinylidene chloride
Hexanenitrile	Methyl cellosolve acetate	n-Octane	Water
Hexanoic acid	Methyl chloride	n-Propyl benzene	Xenon
Hexanol	Methyl chloroform	o-Toluidine	α-Methylstyrene
Hydrogen bromide	Methyl Chloroformate	o-Anisidine	α-Terpinene
Hydrogen chloride	Methyl cyclopentane	o-Cresol	ε-Caprolactam
Hydrogen cyanide	Methyl hydrazine	Octamethylcyclotetrasiloxane	
Hydrogen fluoride		Octyl cyanide	