

**Table 3: Air Concentration Summary of Volatile Organic Compounds measured in 2001 at the Los Alamos Hospital (ppbv)**

Compound Name	Chemical Abstract Service Compound Number	Number of Measurements	Number of Measurements < detection limit	Range	Mean	Standard Deviation
1,1,1-Trichloroethane	71-55-6	7	0	0.032-0.039	0.035	0.002
1,1,2,2-Tetrachloroethane	79-34-5	7	6	0.013	0.013	
1,1-Dichloroethene	75-35-4	7	6	0.018	0.018	
1,2,3-Trimethylbenzene	526-73-8	7	5	0.015-0.029	0.022	
1,2,4-Trichlorobenzene	120-82-1	7	6	0.034	0.034	
1,2,4-Trimethylbenzene	95-63-6	7	0	0.032-0.14	0.068	0.040
1,2-Dichlorobenzene	95-50-1	7	6	0.021	0.021	
1,3,5-Trimethylbenzene	108-67-8	7	3	0.016-0.046	0.026	0.014
1,3-Butadiene	106-99-0	7	1	0.016-0.096	0.060	0.030
1,3-Dichlorobenzene	541-73-1	7	6	0.019	0.019	
1,4-Dichlorobenzene	106-46-7	7	6	0.03	0.030	
1-Butanol	71-36-3	7	5	0.22-0.59	0.460	
1-Butene/Isobutene	106-98-9	7	0	0.082-0.8	0.311	0.300
1-Heptene	592-76-7	7	5	0.037-0.038	0.038	
1-Hexene	592-41-6	7	5	0.04-0.04	0.040	
1-Methylcyclopentene	693-89-0	7	7	<0.015		
1-Nonene	124-11-8	7	6	0.022	0.022	
1-Octene	111-66-0	7	6	0.02	0.020	
1-Pentene	109-67-1	7	1	0.028-0.11	0.052	0.040
1-Propanol	71-23-8	7	5	0.7-1.1	0.900	
1-Undecene	821-95-4	7	6	0.028	0.028	
2,2,3-Trimethylpentane	564-02-3	7	3	0.0086-0.04	0.020	0.014
2,2,4-Trimethylpentane	540-84-1	7	0	0.023-0.84	0.210	0.300
2,2,5-Trimethylhexane	3522-94-9	7	5	0.0098-0.025	0.017	
2,2-Dimethylbutane	75-83-2	7	1	0.011-0.1	0.034	0.030
2,3,4-Trimethylpentane	565-75-3	7	1	0.076-0.15	0.100	0.030
2,3-Dimethylbutane	79-29-8	7	0	0.014-0.081	0.040	0.020
2,3-Dimethylpentane	565-59-3	7	0	0.023-0.13	0.068	0.040
2,4,4-Trimethyl-1-pentene	107-39-1	7	4	0.0083-0.013	0.011	0.002
2,4-Dimethylpentane	108-08-7	7	0	0.015-0.12	0.043	0.040
2,5-Dimethylhexane	592-13-2	7	3	0.012-0.042	0.023	0.014
2-Butanone (Methyl Ethyl Ketone)	78-93-3	7	0	0.13-2.7	0.900	1.100
2-Ethyl-1-butene	760-21-4	7	6	0.024	0.024	
2-Ethyltoluene	611-14-3	7	3	0.012-0.032	0.023	0.008
2-Methyl-1-pentene	763-29-1	7	5	0.0095-0.032	0.020	
2-Methyl-2-butene	513-35-9	7	2	0.011-0.13	0.047	0.050
2-Methyl-2-pentene	625-27-4	7	4	0.0088-0.031	0.018	0.012
2-Methylbutane	78-78-4	7	0	0.54-2.6	1.200	0.700
2-Methylheptane	592-27-8	7	2	0.017-0.43	0.140	0.170
2-Propanol	67-63-0	7	0	0.053-0.91	0.320	0.300
3-Ethyltoluene	620-14-4	7	0	0.019-0.092	0.050	0.030
3-Methyl-1-butene	563-45-1	7	6	0.019	0.019	

3-Methylheptane	589-81-1	7	4	0.0091-0.024	0.018	0.008
3-Methylhexane	589-34-4	7	1	0.054-0.16	0.100	0.040
3-Methylpentane	96-14-0	7	0	0.036-0.18	0.090	0.050
4-Ethyltoluene	622-96-8	7	3	0.019-0.041	0.030	0.009
4-Methyl-1-pentene	691-37-2	7	6	0.039	0.039	
4-Methyl-2-pentanone	108-10-1	7	5	0.32-0.59	0.450	
Acetaldehyde	75-07-0	7	0	2.6-22	8.600	8.000
Acetone	67-64-1	7	0	2.3-27	9.800	1
Acetonitrile	75-05-8	7	2	0.085-0.24	0.150	0.060
Acetylene	74-86-2	7	0	0.91-2.5	1.600	0.600
alpha-Pinene	80-56-8	7	1	0.015-0.08	0.050	0.020
Benzaldehyde	100-52-7	7	0	0.035-0.44	0.220	0.140
Benzene	71-43-2	7	0	0.18-0.62	0.370	0.180
beta-Pinene	127-91-3	7	6	0.0091	0.009	
Bromomethane	74-83-9	7	6	0.033	0.033	
Butane	106-97-8	7	0	0.55-2.3	1.100	0.700
Butyraldehyde	123-72-8	7	0	0.092-4.2	1.000	1.600
Carbon Tetrachloride	56-23-5	7	0	0.11-0.13	0.120	0.010
Chlorobenzene	108-90-7	7	2	0.0069-0.018	0.011	0.004
Chlorodifluoromethane	75-45-6	7	0	0.18-0.22	0.200	0.015
Chloroethane	75-00-3	7	4	0.038-0.072	0.058	0.018
Chloroform	67-66-3	7	2	0.0049-0.01	0.008	0.002
Chloromethane	74-87-3	7	0	0.42-0.5	0.460	0.020
cis-2-Butene	590-18-1	7	3	0.023-0.065	0.040	0.018
cis-2-Hexene	7688-21-3	7	7	<0.01		
cis-2-Octene	7642-04-8	7	6	0.056	0.056	
cis-2-Pentene	627-20-3	7	5	0.02-0.036	0.028	
cis-3-Heptene	7642-10-6	7	7	<0.08		
cis-3-Hexene	7642-09-3	7	7	<0.02		
cis-3-Methyl-2-pentene	922-62-3	7	7	<0.01		
cis/trans-4-Methyl-2-pentene	691-38-3	7	5	0.0033-0.0095	0.006	
Cyclohexane	110-82-7	7	1	0.018-0.1	0.053	0.030
Cyclopentane	287-92-3	7	3	0.016-0.045	0.031	0.012
Cyclopentene	142-29-0	7	7	<0.03		
Dichlorofluoromethane	75-43-4	7	7	<0.015		
Ethane	74-84-0	7	0	3.4-17	6.400	5.000
Ethanol	64-17-5	7	0	8.4-19	14.000	4.000
Ethyl Benzene	100-41-4	7	0	0.031-0.16	0.088	0.050
Ethylene	74-85-1	7	0	0.91-2.8	1.900	0.800
Freon 11	75-69-4	7	0	0.28-0.33	0.320	0.020
Freon 113	76-13-1	7	0	0.063-0.11	0.074	0.015
Freon 114	76-14-2	7	0	0.0091-0.016	0.011	0.002
Freon 12	75-71-8	7	0	0.56-0.62	0.580	0.020
Halocarbon 134A	811-97-2	7	0	0.032-0.16	0.068	0.040
Heptanal	111-71-7	7	5	0.12-1.2	0.660	
Heptane	142-82-5	7	1	0.025-0.11	0.057	0.040
Hexachlorobutadiene	87-68-3	7	6	0.024	0.024	
Hexanal	66-25-1	7	1	0.059-2.9	0.650	1.100
Hexane	110-54-3	7	0	0.044-0.22	0.120	0.060
Indan	496-11-7	7	6	0.012	0.012	
Isobutane	75-28-5	7	0	0.19-0.77	0.320	0.210

Isoheptane	31394-5	7	1	0.027-1.0	0.220	0.390
Isohexane	107-83-5	7	0	0.1-0.43	0.220	0.120
Isoprene	78-79-5	7	3	0.018-0.073	0.040	0.020
Limonene	138-86-3	7	6	0.029	0.029	
Methanol	67-56-1	7	0	4.5-14.3	9.000	3.000
Methyl tert-Butyl Ether	1634-04-4	7	6	0.0086	0.009	
Methylcyclohexane	108-87-2	7	2	0.012-0.096	0.052	0.030
Methylcyclopentane	96-37-7	7	0	0.019-0.13	0.063	0.040
Methylene Chloride	75-09-2	7	0	0.037-0.44	0.120	0.150
n-Decane	124-18-5	7	1	0.003-0.024	0.010	0.010
n-Nonane	111-84-2	7	0	0.012-0.46	0.082	0.160
n-Octane	111-65-9	7	0	0.02-0.064	0.034	0.016
n-Propylbenzene	103-65-1	7	6	0.03	0.030	
n-Undecane	1120-21-4	7	4	0.0052-0.0085	0.007	0.002
Naphthalene	91-20-3	7	6	0.032	0.032	
Neopentane	463-82-1	7	6	0.0056	0.006	
o-Xylene	95-47-6	7	0	0.044-0.21	0.120	0.070
p-Xylene/m-Xylene	106-42-3	7	0	0.093-0.5	0.270	0.170
Pentane	109-66-0	7	0	0.14-0.57	0.330	0.160
Propane	74-98-6	7	0	0.99-4.6	1.800	1.200
Propylene	115-07-1	7	0	0.12-0.69	0.360	0.220
Styrene	100-42-5	7	3	0.012-0.038	0.024	0.012
Tetrachloroethene	127-18-4	7	7	<0.04		
Toluene	108-88-3	7	0	0.26-1.2	0.620	0.350
trans-2-Butene	624-64-6	7	2	0.019-0.068	0.040	0.018
trans-2-Heptene	14686-1	7	7	<0.02		
trans-2-Hexene	4050-45-7	7	5	0.0067-0.018	0.012	
trans-2-Pentene	646-04-8	7	0	0.012-0.074	0.031	0.021
trans-3-Heptene	14686-1	7	6	0.045	0.045	
Trichloroethene	79-01-6	7	7	<0.045		
Vinyl Acetate	108-05-4	7	2	0.3-1.2	0.700	0.400