

Appendix 2-G – NATA Lowest Comparison Levels

Appendix 2-G. Comparison Levels Used In This Study.

Hazardous Air Pollutant	Cancer Risk Screening Comparison Level¹ (ppbv)	Noncancer Risk Screening Comparison Level² (ppbv)	Noncancer Risk Screening Comparison Level/10³ (ppbv)	Lowest Comparison Level (ppbv)
Acetaldehyde	0.252	4.995	0.500	0.252
Acrylonitrile	0.007	0.922	0.092	0.007
Benzene	0.040	9.390	0.939	0.040
Bromoform	0.088	NA	NA	0.088
Bromomethane	NA	1.288	0.129	0.129
Butadiene, 1,3-	0.015	0.904	0.090	0.015
Carbon Disulfide	NA	224.812	22.481	22.481
Carbon Tetrachloride	0.027	6.358	0.636	0.027
Chlorobenzene	NA	217.216	21.722	21.722
Chloroethane	NA	3790.091	379.009	379.009
Chloroform	NA	20.071	2.007	2.007
Chloromethane	NA	43.583	4.358	4.358
Chloromethylbenzene	0.004	NA	NA	0.004
Chloroprene	NA	1.933	0.193	0.193
Dibromoethane, 1,2-	0.001	0.104	0.010	0.001
Dichlorobenzene, p-	0.015	133.061	13.306	0.015
Dichloroethane, 1,1-	0.154	123.534	12.353	0.154
Dichloroethane, 1,2-	0.010	592.964	59.296	0.010
Dichloroethene, 1,1-	NA	50.443	5.044	5.044
Dichloromethane	0.613	287.883	28.788	0.613
Dichloropropane, 1,2-	0.011	0.866	0.087	0.011
Ethylbenzene	0.421	210.322	21.032	0.421
Formaldehyde	0.065	7.979	0.798	0.065
Hexachloro-1,3-butadiene	0.004	8.439	0.844	0.004
Hexane, n-	NA	56.741	5.674	5.674
Isopropylbenzene	NA	81.370	8.137	8.137
Methyl Isobutyl Ketone	NA	732.325	73.232	73.232
Methyl Methacrylate	NA	170.944	17.094	17.094
Methyl tert-Butyl Ether	1.387	832.100	83.210	1.387

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Hazardous Air Pollutant	Cancer Risk Screening Comparison Level¹ (ppbv)	Noncancer Risk Screening Comparison Level² (ppbv)	Noncancer Risk Screening Comparison Level/10³ (ppbv)	Lowest Comparison Level (ppbv)
Styrene	NA	234.756	23.476	23.476
Tetrachloroethane, 1,1,2,2-	0.003	NA	NA	0.003
Tetrachloroethylene	0.025	39.809	3.981	0.025
Toluene	NA	106.141	10.614	10.614
Trichlorobenzene, 1,2,4-	NA	26.949	2.695	2.695
Trichloroethane, 1,1,1-	NA	183.278	18.328	18.328
Trichloroethane, 1,1,2-	0.011	73.313	7.331	0.011
Trichloroethylene	0.093	111.652	11.165	0.093
Vinyl chloride	0.044	39.120	3.912	0.044
Xylene, m,p-	NA	23.029	2.303	2.303
Xylene, o-	NA	23.029	2.303	2.303

Reference: Health Effects Information Use in Cancer and Noncancer Risk Characterization for the 2005 National-Scale Assessment
http://www.epa.gov/ttn/atw/nata2002/02pdfs/health_effects.pdf

NA : No comparison value is available.

¹ : The comparison value presented represents the theoretical cancer risk of 1-in-a-million, if continually breathing this concentration all day, every day, for a period of up to 70 years (<http://www.epa.gov/ttn/atw/nata2002/natafaq.html#A6>).

² : The comparison value presented represents the theoretical level of experiencing a noncancer health effect, such as respiratory, neurological, liver, etc., if continually breathing this concentration all day, every day, for a few years.

³ As a more conservative approach to identifying key pollutants, we divided the noncancer risk screening comparison level by 10.