

US EPA ARCHIVE DOCUMENT

List of Air Toxics in the 2002 NATA Assessment

Pollutant Name	Results Generated*				
	CAS Number	Overall Confidence in Exposure Assessment	Ambient Concentration Estimates	Cancer Risk Estimates	Noncancer Risk Estimates (Hazard Quotient)**
1,1,1-Trichloroethane (Methyl Chloroform)	71556		X		X
1,1,2,2-Tetrachloroethane	79345	medium	X	X	
1,1,2-Trichloroethane	79005	medium	X	X	
1,1-Dimethyl hydrazine	57147		X		
1,2,3,4,5,6-Hexachlorocyclohexane (all isomers including Lindane)	58899	medium	X	X	
1,2,4-Trichlorobenzene	120821	medium	X		
1,2-Dibromo-3-chloropropane	96128	medium	X	X	
1,2-Diphenylhydrazine	122667	lower	X	X	
1,2-Epoxybutane	106887	medium	X		X
1,2-Propylenimine	75558		X		
1,3-Butadiene	106990	lower	X	X	
1,3-Dichloropropene	542756	medium	X	X	X
1,3-Propane sultone	1120714	lower	X	X	
1,4-Dichlorobenzene (p-Dichlorobenzene)	106467	higher	X	X	
1,4-Dioxane	123911	medium	X	X	
2,2,4-Trimethylpentane	540841		X		
2,4,5-Trichlorophenol	95954		X		
2,4,6-Trichlorophenol	88062	medium	X	X	
2,4-D, salts and esters	94757		X		
2,4-Dinitrophenol	51285		X		
2,4-Dinitrotoluene	121142	medium	X	X	X
2,4-Toluene diamine	95807	lower	X	X	
2,4-Toluene diisocyanate	584849	lower	X	X	X
2-Chloroacetophenone	532274	medium	X		X
2-Nitropropane	79469	medium	X	X	
3,3-Dichlorobenzidine	91941	medium	X	X	
3,3-Dimethoxybenzidine	119904	lower	X	X	
3,3-Dimethyl benzidine	119937	lower	X	X	
4,4'-Methylene bis(2-chloroaniline)	101144	lower	X	X	
4,4'-Methylenedianiline	101779	medium	X	X	
4,4'-Methylene diphenyl diisocyanate (MDI)	101688		X		X
4,6-Dinitro-o-cresol, and salts	534521		X		
4-Aminobiphenyl	92671		X		
4-Dimethylaminoazobenzene (p-Dimethylaminoazobenzene)	60117	lower	X	X	
4-Nitrobiphenyl	92933		X		
4-Nitrophenol	100027		X		
Acetaldehyde	75070	lower	X	X	X
Acetamide	60355	lower	X	X	
Acetonitrile	75058	higher	X		
Acetophenone	98862		X		
Acrolein	107028	lower	X		X
Acrylamide	79061	lower	X	X	X
Acrylic acid	79107	medium	X		X
Acrylonitrile	107131	higher	X	X	X
Allyl chloride	107051	medium	X	X	X
Aniline	62533	lower	X	X	
o-Anisidine	90040		X		
Antimony compounds	N/A	lower	X		X
Arsenic compounds (inorganic, may include arsine)	N/A	lower	X	X	
Benzene	71432	higher	X	X	
Benzenzidine	92875	lower	X	X	X
Benzotrithloride	98077	medium	X	X	
Benzyl chloride	100447	higher	X	X	
Beryllium compounds	N/A	lower	X	X	X
beta-Propiolactone	57578		X		
Biphenyl	92524		X		
Bis(2-ethylhexyl)phthalate	117817	higher	X	X	X
Bis(chloromethyl)ether	542881	medium	X	X	
Bromoform	75252	medium	X	X	
Cadmium compounds	N/A	lower	X	X	
Calcium cyanamide	156627		X		
Captan	133062	lower	X	X	
Carbaryl	63252		X		
Carbon disulfide	75150	higher	X		X
Carbon tetrachloride	56235	medium	X	X	
Carbonyl sulfide	463581		X		
Catechol	120809		X		
Chlordane	57749	medium	X	X	
Chlorine	7782505	lower	X		X
Chloroacetic acid	79118		X		
Chlorobenzene	108907	higher	X		
Chlorobenzilate	510156	medium	X	X	
Chloroform	67663	medium	X		
Chloromethyl methyl ether	107302		X		
Chloroprene	126998	lower	X		X
Chromium Compounds	N/A	lower	X	X	X

Pollutant Name	CAS Number	Overall Confidence in Exposure Assessment	Ambient Concentration Estimates	Cancer Risk Estimates	Noncancer Risk Estimates (Hazard Quotient)**
Cobalt compounds	N/A	lower	X		X
Coke Oven Emissions	N/A	medium	X	X	
Cresols, Cresylic acid (isomers and mixture)	1319773	lower	X		X
o-Cresol***	95487		X		X
m-Cresol***	108394		X		X
p-Cresol***	106445		X		X
Cumene	98828	higher	X		
Cyanide compounds	N/A	higher	X		X
DDE (1,1-Dichloro-2,2-Bis(P-Chlorophenyl) Ethylene	72559		X	X	
Diazomethane	334883		X		
Dibenzofurans	132649		X		
Dibutylphthalate	84742		X		
Dichloroethyl ether (Bis(2-Chloroethyl) Ether)	111444	medium	X	X	
Dichlorvos	62737	medium	X	X	
Diesel Engine Emissions (Diesel Particulate Matter)	N/A	medium	X		X
Diethanolamine	111422	lower	X		X
Diethyl sulfate	64675		X		
Dimethyl formamide	68122	lower	X		
Dimethyl phthalate	131113		X		
Dimethyl sulfate	77781		X		
Dimethyl carbamoyl chloride	79447		X		
Epichlorohydrin	106898	medium	X	X	X
Ethyl acrylate	140885	medium	X		
Ethyl carbamate (Urethane)	51796	medium	X	X	
Ethyl chloride	75003	medium	X		
Ethyl benzene	100414	medium	X		
Ethylene dibromide (Dibromomethane)	106934	medium	X	X	X
Ethylene dichloride	107062	medium	X	X	
Ethylene glycol	107211	higher	X		X
Ethylene oxide	75218	higher	X	X	X
Ethylene thiourea	96457	lower	X	X	
Ethylene imine (Aziridine)	151564		X		
Ethylidene dichloride (1,1-Dichloroethane)	75343	medium	X	X	
Formaldehyde	50000	medium	X	X	X
Glycol ethers	N/A	medium	X		
Heptachlor	76448		X	X	
Hexachlorobenzene	118741	medium	X	X	
Hexachlorobutadiene	87683	medium	X	X	
Hexachlorocyclopentadiene	77474	medium	X		X
Hexachloroethane	67721	medium	X	X	X
Hexamethylene-1,6-diisocyanate	822060	medium	X		X
Hexamethylphosphoramide	680319		X		
Hexane	110543	higher	X		X
Hydrazine	302012	lower	X	X	
Hydrochloric acid	7647010	lower	X		X
Hydrofluoric acid	7664393	higher	X		
Hydroquinone	123319		X		
Isophorone	78591	lower	X	X	
Lead compounds	N/A	lower	X		X
Maleic anhydride	108316	lower	X		X
Manganese compounds	N/A	lower	X		X
Mercury compounds	N/A	lower	X		X
Methanol	67561	higher	X		
Methoxychlor	72435		X		
Methyl bromide (Bromomethane)	74839	higher	X		X
Methyl chloride (Chloroethane)	74873	higher	X		X
Methyl iodide (Iodomethane)	74884		X		
Methyl isobutyl ketone	108101	medium	X		
Methyl isocyanate	624839	medium	X		X
Methyl methacrylate	80626	lower	X		X
Methyl tert butyl ether	1634044	higher	X	X	
Methylene chloride (Dichloromethane)	75092	medium	X	X	
Methyl hydrazine	60344		X		
N,N-Dimethyl aniline	121697		X		
Naphthalene	91203	medium	X	X	X
Nickel compounds	N/A	lower	X	X	X
Nitrobenzene	98953	lower	X	X	X
Nitrosodimethylamine	62759	lower	X	X	
N-Nitrosomorpholine	59892	lower	X	X	
o-Toluidine	95534	lower	X	X	
PAHPOM (Polycyclic Organic Matter)	N/A	medium	X	X	
Parathion	56382		X		
Pentachloronitrobenzene	82688	medium	X	X	
Pentachlorophenol	87865	medium	X	X	
Phenol	108952	lower	X		
Phosgene	75445	medium	X		X
Phosphine	7803512	medium	X		
Phosphorous	7723140		X		
Phthalic anhydride	85449	medium	X		X
Polychlorinated biphenyls (PCBs)	1336363	medium	X	X	
p-Phenylenediamine	106503		X		
Propionaldehyde	123386		X		

Pollutant Name	CAS Number	Overall Confidence in Exposure Assessment	Ambient Concentration Estimates	Cancer Risk Estimates	Noncancer Risk Estimates (Hazard Quotient)**
Propoxur	114261		X		
Propylene dichloride	78875	lower	X	X	X
Propylene oxide	75569	higher	X	X	X
Quinoline	91225	lower	X		
Quinone (p-Benzoquinone)	106514		X		
Selenium Compounds	N/A	lower	X		X
Styrene	100425	lower	X		X
Styrene oxide	96093	medium	X		X
Tetrachloroethylene (Perchloroethylene)	127184	medium	X	X	X
Titanium tetrachloride	7550450	lower	X		X
Toluene	108883	medium	X		X
Toxaphene	8001352	medium	X	X	
Trichloroethylene	79016	medium	X	X	X
Triethylamine	121448	lower	X		X
Trifluralin	1582098	lower	X	X	
Vinyl acetate	108054	medium	X		X
Vinyl bromide	593602	medium	X	X	
Vinyl chloride	75014	medium	X	X	
Vinylidene chloride (1,1-Dichloroethylene)	75354	medium	X		
Xylenes (isomers and mixture)	1330207	medium	X		X
o-Xylene***	95476		X		X
m-Xylene***	108383		X		X
p-Xylene***	106423		X		X

* Results generated in the 2002 NATA

** Noncancer hazard quotients estimates presented only when a dose-response value existed for respiratory or neurological endpoints

*** Results for individual cresol and xylene isomers have been aggregated and presented as part of the 'Isomers and Mixture' results for each air toxics.

There are 124 air toxics for which there is a cancer and/or noncancer dose-response value.

There are 57 air toxics for which there are no dose-response values. For these, only the concentration estimates are available.