

# Appendix B: Indiana Toxic Emissions Inventory

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## CALCULATION METHODS

### Mobile Source Emissions

Indiana used EPA's 1999 draft mobile source hazardous air pollutant inventory developed for the 1999 National Emissions Inventory (NEI) for all mobile source estimates except aircraft emissions. EPA's 1999 NEI data files and documentation are available at <http://www.epa.gov/ttn/chief/net/index.html>. Information on the 1999 point and area source inventory data included in this report can be found in the regional report issued in January 2003 on the Great Lakes Commission website (<http://www.glc.org/air/>).

#### On-road Mobile Sources

Equipment types in the on-road inventory include buses, light and heavy duty trucks, light and heavy duty vehicles, and motorcycles. Engine types in the on-road inventory include gasoline and diesel engines. EPA used the recently released mobile 6.2 model to develop on-road mobile source estimates. See the documentation listed above for further details on how EPA developed the on-road mobile source estimates for the NEI.

#### Off-road Mobile Sources

Equipment types in the off-road inventory include farm, construction, industrial, light commercial, aircraft, lawn and garden, recreational boats, recreational vehicles, railroads, logging and commercial marine vessels. Engine types in the off-road inventory include 2-stroke gasoline, 4-stroke gasoline, diesel and LPG (liquefied petroleum gas) engines. EPA used an off road emissions model to develop off-road mobile source estimates for most categories. See the documentation listed above for further details on how EPA developed the off-road mobile source estimates for the NEI. Below is documentation for the aircraft estimates developed by the Indiana Department of Environmental Management (IDEM).

#### Aircraft

Aircraft emissions were estimated for all airports in Indiana using operations data obtained from the Indiana Department of Transportation's (INDOT) website (<http://www.state.in.us/dot/modetrans/airports/aerials.html>) for all HAPs except lead. Lead estimates were obtained from EPA's 1999 NEI. INDOT maintains operations information for four general types of aircraft (commercial, air taxi, general aviation and military). Each operation represents either a landing or a takeoff, so the number of operations were divided by two to equal a Landing/TakeOff (LTO) cycle. Each airport was entered into RAPIDS as an individual source.

Criteria pollutant emission factors were developed using the Federal Aviation Administration Aircraft Engine and Emission Database (FAAED). Shown below are the VOC and TOG emission factors used.

<u>SCC/AMS CODE</u>	<u>AIRCRAFT</u>	<u>LB VOC/LTO</u>	<u>LB TOG/LB VOC</u>
2275001000	Military	27.1	1.183
2275020000	Commercial	7.16	1.178
2275060000	Air taxi	1.23	1.178
2275050000	General aviation	0.39	1.16

VOC were converted to TOG and air toxics were estimated using speciation profiles from RAPIDS and from the 1999 NEI.

#### SAMPLE CALCULATION

Fort Wayne International (003FWA) Commercial Aircraft Formaldehyde Estimate  
(12007 operations/year) \* (1 LTO/2 operations) \* (7.16 lb VOC/LTO) \* (1.178 lb TOG/lb VOC)  
\* (0.1501 lb formaldehyde/lb TOG) = 7,600.52 lb formaldehyde/year

## **RESULTS**

The attached tables provide a list of pollutants included in the 1999 inventory, and state and county emission estimates broken down by point, area, off-road mobile and on-road-mobile sources. Details on the point and area source inventory can be found in the report issued in January 2003 on the Great Lakes Commission's website (<http://www.glc.org/air/>).

## **INFORMATION**

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**Table B-1: Indiana - Statewide Emissions (lb/yr)**

<b>POLLUTANT</b>	<b>Point Sources</b>	<b>Area Sources</b>	<b>Nonroad Sources</b>	<b>Mobile Sources</b>	<b>STATE TOTAL</b>
ACENAPHTHEN	30.12	3,566.31	736.14	1,715.14	6,047.74
ACENAPHTHYL	20.78	75,527.47	3,230.32	9,023.86	87,802.43
ACETALDEHYDE	189,570.00	44,022.33	1,827,326.57	1,956,450.76	4,017,369.66
ACETAMIDE		0.71			0.71
ACETONITRILE	144,287.58				144,287.58
ACETOPHENONE	15,859.15	50.66			15,909.81
ACROLEIN	20,842.86	106,098.95	315,292.53	212,360.22	654,594.53
ACRYLAMIDE	4.40				4.40
ACRYLIC ACID	941.40	0.02			941.42
ACRYLONITRIL	4,143.81	4,555.37			8,699.18
ALLYL CHLORI	12.96				12.96
AMINOBIPE, 4	0.42				0.42
ANILINE	832.00				832.00
ANISIDINE, O-	1.27				1.27
ANTHRACENE	48,731.73	4,990.11	1,218.99	2,067.14	57,008.06
ANTIMONY	11,305.01	6.23			11,311.24
ARSENIC	30,958.72	2,400.95	78.99	1,119.25	34,557.94
ATRAZINE		1,199,880.00			1,199,880.00
BENZ (A) ANTHR	15,860.50	7,778.43	727.84	512.59	24,879.42
BENZ (BK) FL		0.21			0.21
BENZ (GHI) PE	1.71	1,425.51	474.52	605.27	2,507.15
BENZENE	396,638.89	1,761,301.51	2,554,157.77	9,590,463.90	14,302,562.09
BENZIDINE	5.56				5.56
BENZO (A) PYRE	12,765.07	1,580.95	296.97	311.74	14,954.76
BENZO (B) FLUO	0.35	2,137.84	257.00	341.79	2,737.06
BENZO (K) FLUO	0.05	712.83	251.43	341.79	1,306.17
BENZYL CHLOR	38,209.72				38,209.72
BERYLLIUM	2,788.30	323.10	47.22		3,158.63
BIPHENYL	34,057.59	3,879.48			37,937.07
BROMOFORM	2,123.00				2,123.00
BROMOMETH	10,351.43	1,319,324.03			1,329,675.46
BUTADIENE, 13	1,119.57	42,614.68	415,484.15	1,230,272.34	1,689,490.72
CADMIUM	4,742.23	418.45	68.74		5,229.52
CAPTAN	25.00				25.00
CARBON DISUL	94,401.22	598.12			94,999.34
CARBON TETRA	431.53	2,982.02			3,413.53
CARBONYL SUL	1,657,419.64	396.44			1,657,816.08
CHLORINE	741,173.39	390.02			741,563.41
CHLOROBENZ	5,275.07	382.52			5,657.59
CHLOROETHANE	31,674.68	49,136.14			80,810.82
CHLOROFORM	4,619.91	23,123.66			27,743.54
CHLOROPRENE	24.00				24.00
CHROMIUM	81,340.50	1,108.32	1,117.10		83,566.00
CHROMIUM III				423.85	423.85
CHROMIUM VI	4,327.13	67.23		281.74	4,676.11
CHRYSENE	15,245.20	4,929.85	207.17	268.36	20,650.66
CLACETOPHE, 2	384.79				384.79
COBALT	10,566.71	63.11			10,629.79
COKE OVEN GS	569,870.17				569,870.17
COPPER	77,600.84	322.74			77,923.58
CRESOL MX IS	172,635.00				172,635.00
CRESOL, M	19,530.60				19,530.60
CRESOL, O	992.80				992.80
CRESOL, P	10,097.60				10,097.60
CUMENE	197,569.89	9,581.92			207,151.81
CYANIDE	144,301.33				144,301.33
DIBENZAHAH	0.16	1,617.23	1.84	0.02	1,619.38
DIBROMO3, 12	9.82				9.82
DIBROMOET, 12	65.70	2.86			68.58
DIBUTYL PHTH	10,027.81	2,308.15			12,335.96
DICHLORETH12	28,508.59	4,865.66			33,374.25
DICLBENZ, 14	1,055.01	462,951.99			464,007.00

POLLUTANT	Point Sources	Area Sources	Nonroad Sources	Mobile Sources	STATE TOTAL
DICLETH,11-	171.11	264.28			435.39
DICLPROPE,13		950,864.16			950,864.16
DIETHANOLAMI	9,499.44				9,499.44
DIEYLHEX PHT	6,068.36				6,068.36
DIMETH PHTHA	40,260.41				40,260.41
DIMETH SULFA	2,599.44				2,599.44
DIMETHFORMAM	16,625.01	68,034.30			84,659.31
DIMETHOXY,33	1.54				1.54
DIMETHYLANIL	321.24				321.24
DINITROPH,24	3.47				3.47
DINITRTOL,24	29.81				29.81
DIOCTYL PHTH	2.39	25.00			27.39
DIOXANE	1,628.89	214.00			1,842.89
EPICLHYDRIN	31.80				31.80
EPOXYBUT,12	455.90				455.90
ETH ACRYLATE	1.42				1.42
ETHYLBENZENE	691,822.59	715,437.32	1,680,074.88	4,037,838.28	7,125,173.03
ETHYLENE GLY	100,878.79	130,694.06			231,572.85
ETHYLENE OXI	3,492.41	130,976.10			134,468.51
ETHYLENE THI	10.00				10.00
FLUORANTHENE	45,374.93	7,839.27	1,362.22	2,141.30	56,717.71
FLUORENE	58.45	8,551.87	2,082.70	3,580.70	14,273.72
FORMALDEHYDE	350,857.46	315,181.69	3,961,393.80	4,331,375.09	8,958,808.05
GLYCOL ETHRS	2,189,499.85	638,397.94			2,827,897.79
HCL	54,382,084.53	210,336.16			54,592,420.66
HEXACL-1,3-C	1.63				1.63
HEXAMETHYL16	2,126.84				2,126.84
HEXANE	4,962,090.61	4,132,407.67	1,080,341.42	3,590,681.63	13,765,521.29
HEXCHLORETH	39,053.94				39,053.94
HEXCL-13-BUT	8.98				8.98
HEXCLBENZENE		0.54			0.54
HF	6,845,451.23	8.39			6,845,459.62
HYDROGEN CYA	12,222.00	494,008.00			506,230.00
HYDROQUINONE	1,066.73	11,750.47			12,817.20
INDN(123CDPY	3.23	7,125.20	130.32	166.83	7,425.70
ISOPHORONE	84,485.36	5,627.96			90,113.32
LEAD	161,474.24	4,967.01	39,169.71		205,610.91
LEAD OXIDE	102.20				102.20
MALEIC ANHYD	4.00				4.00
MANGANESE	286,250.31	1,549.75	1,361.09	239.89	289,401.09
MERCURY	7,804.08	438.42	337.58	1,266.63	9,846.79
METH ETH KET	2,217,337.59	2,616,748.61			4,834,086.20
METH HYDRAZI	9,207.09				9,207.09
METH IODIDE	48.50				48.50
METH ISOBUT	1,294,703.83	1,942,060.10			3,236,763.93
METH ISOCYAN	34.00				34.00
METH METHACR	232,665.94				232,665.94
METH TERT BU	81,699.10	100,262.04	19,414.21	1,371,489.35	1,572,864.70
METHANOL	3,263,389.73	3,854,353.46			7,117,743.19
METHENE DIAN	580.08				580.08
METHENE(B)4-	93,528.86				93,528.86
METHYL CHLOR	53,463.08	53,522.01			106,985.09
METHYLENE CL	4,518,756.95	1,254,025.70			5,772,782.65
NAPHTHALENE	331,865.63	668,605.79	69,228.76	234,933.47	1,304,633.61
NICKEL	59,506.55	4,271.12	5,538.20	537.45	69,853.42
NITRBIPHEN,4	0.77				0.77
NITROBENZ	0.21				0.21
NITROPHENL,4	14.42				14.42
NITROPROPA,2		11.61			11.61
NITROSODIMET	1.78				1.78
NITROSOMORPH	1.22				1.22
PCBS	0.03				0.03
PCDD	0.35	1.03			1.35
PCDF	1.11	5.62			6.70
PCP	3.06				3.06

POLLUTANT	Point Sources	Area Sources	Nonroad Sources	Mobile Sources	STATE TOTAL
PENTCLNITBEN	1.86				1.86
PERC	115,585.75	3,137,242.55			3,252,828.27
PHENANTHRENE	139,343.79	27,796.51	3,269.38	5,875.62	176,285.36
PHENOL	873,848.42	381.26	4,204.83		878,434.52
PHENYLENED,P	1,100.00				1,100.00
PHOSGENE	161.00				161.00
PHOSPHORUS	77,573.95				77,573.95
PTHALIC ANH	10,910.00				10,910.00
PROP IM, 12	6.22				6.22
PROPIONALDEH	24,079.47		301,763.97	232,241.38	558,084.81
PROPOXUR	97.20				97.20
PRPLENE GLYC	131.00				131.00
PRPLENE OXID	36,361.80				36,361.80
PYRENE	21.74	8,552.66	1,908.73	2,987.06	13,470.19
QUINOLINE	4,087.26				4,087.26
QUINONE	198.12				198.12
SELENIUM	75,787.16	598.05	40.62		76,425.86
STYRENE	5,974,749.40	2,308.31	109,140.32	810,499.16	6,896,697.10
TCDD, 2378	8.35E-04	2.66E-03			3.49E-03
TCDF, 2378	0.37	0.15			0.52
TCE, 111	34,636.32	5,527,443.85			5,562,080.14
TETCLET, 1122	1,301.35	2,503.72			3,805.07
TOL DIAMIN24	12.00				12.00
TOLUENE	6,830,611.99	13,948,396.22	7,316,939.64	27,287,180.32	55,383,128.16
TOLUENE24DII	6,073.02				6,073.02
TOLUIDINE, O-	113.42				113.42
TRICHLORETHY	1,030,083.11	2,859,840.27			3,889,923.38
TRICLBZ, 124	5.90				5.90
TRICLETH, 112	481.00	180.83			661.83
TRICLPHN, 245	1.24				1.24
TRICLPHN, 246	629.32				629.32
TRIETHAMINE	909,785.05	4,986.12			914,771.17
TRIFLURALIN	1.45				1.45
TRIME-PENTAN	41,259.59	415,504.99	829,594.68	9,554,129.37	10,840,488.63
VINLIDENE CL	43.99	2,784.14			2,828.12
VINYL ACETAT	116,690.19	0.26			116,690.41
VINYL CHLOR	3,467.49	6,259.32			9,726.81
XYLENE, M	3,444.33	36,972.04			40,416.37
XYLENE, O	1,531.78	99,289.45	3,320.73		104,141.96
XYLENE, P	983.10	36,972.04			37,955.14
XYLENES ISO	5,774,832.25	12,298,887.09	6,588,922.55	15,348,954.18	40,011,596.08

## Indiana – Pollutant Codes

CODE	POLLUTANT	CAS NUMBER
ACENAPHTHEN	ACENAPHTHENE	83-32-9
ACENAPHTHYL	ACENAPHTHYLENE	208-96-8
ACETALDEHYDE	ACETALDEHYDE	75-07-0
ACETAMIDE	ACETAMIDE	60-35-5
ACETONITRILE	ACETONITRILE	75-05-8
ACETOPHENONE	ACETOPHENONE	98-86-2
ACROLEIN	ACROLEIN	107-02-8
ACRYLAMIDE	ACRYLAMIDE	79-06-1
ACRYLIC ACID	ACRYLIC ACID	79-10-7
ACRYLONITRIL	ACRYLONITRILE	107-13-1
ALLYL CHLORI	ALLYL CHLORIDE	107-05-1
AMINOBIPE, 4	4-AMINOBIPHENYL	92-67-1
ANILINE	ANILINE	62-53-3
ANISIDINE, O-	O-ANISIDINE	90-04-0
ANTHRACENE	ANTHRACENE	120-12-7
ANTIMONY	ANTIMONY	7440-36-0
ARSENIC	ARSENIC	7440-38-2
ATRAZINE	ATRAZINE	1912-24-9
BENZ (A) ANTHR	BENZ (A) ANTHRACENE	56-55-3
BENZ (BK) FL	BENZO (B+K) FLUORANTHENE	
BENZ (GHI) PE	BENZO (G, H, I) PERYLENE	191-24-2
BENZENE	BENZENE	71-43-2
BENZIDINE	BENZIDINE	92-87-5
BENZO (A) PYRE	BENZO (A) PYRENE	50-32-8
BENZO (B) FLUO	BENZO (B) FLUORANTHENE	205-99-2
BENZO (K) FLUO	BENZO (K) FLUORANTHENE	207-08-9
BENZYL CHLOR	BENZYL CHLORIDE	100-44-7
BERYLLIUM	BERYLLIUM	7440-41-7
BIPHENYL	BIPHENYL	92-52-4
BROMOFORM	BROMOFORM	75-25-2
BROMOMETH	BROMOMETHANE	74-83-9
BUTADIENE, 1,3	1,3-BUTADIENE	106-99-0
CADMIUM	CADMIUM	7440-43-9
CAPTAN	CAPTAN	133-06-2
CARBON DISUL	CARBON DISULFIDE	75-15-0
CARBON TETRA	CARBON TETRACHLORIDE	56-23-5
CARBONYL SUL	CARBONYL SULFIDE	463-58-1
CHLORINE	CHLORINE	7782-50-5
CHLOROBENZ	CHLOROBENZENE	108-90-7
CHLOROETHANE	CHLOROETHANE	75-00-3
CHLOROFORM	CHLOROFORM	67-66-3
CHLOROPRENE	CHLOROPRENE	126-99-8
CHROMIUM	CHROMIUM	7440-47-3
CHROMIUM III	CHROMIUM (III)	16065-83-1
CHROMIUM VI	CHROMIUM (VI)	18540-29-9
CHRYSENE	CHRYSENE	218-01-9
CLACETOPHE, 2	2-CHLOROACETOPHENONE	532-27-4
COBALT	COBALT	7440-48-4
COKE OVEN GS	COKE OVEN EMISSIONS	
COPPER	COPPER	7440-50-8
CRESOL MX IS	CRESOL- MIXED ISOMERS	1319-77-3
CRESOL, M	M-CRESOL	108-39-4
CRESOL, O	O-CRESOL	95-48-7
CRESOL, P	P-CRESOL	106-44-5
CUMENE	CUMENE	98-82-8
CYANIDE	CYANIDE	57-12-5
DIBENZAHAN	DIBENZO (A, H) ANTHRACENE	53-70-3
DIBROMO3, 1,2	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8
DIBROMOET, 1,2	1,2-DIBROMOETHANE	106-93-4
DIBUTYL PHTH	DIBUTYL PHTHALATE	84-74-2
DICHLORETH1,2	1,2-DICHLOROETHANE	107-06-2
DICLBENZ, 1,4	1,4-DICHLOROBENZENE	106-46-7
DICLETH, 1,1-	1,1-DICHLOROETHANE	75-34-3

DICLPROPE, 13	1,3-DICHLOROPROPENE	542-75-6
DIETHANOLAMI	DIETHANOLAMINE	111-42-2
DIEYLHEX PHT	DIETHYLHEXYL PHTHALATE	117-81-7
DIMETH PHTHA	DIMETHYL PHTHALATE	131-11-3
DIMETH SULFA	DIMETHYL SULFATE	77-78-1
DIMETHFORMAM	DIMETHYLFORMAMIDE, N,N-	68-12-2
DIMETHOXY, 33	3,3-DIMETHOXYBENZIDENE	119-90-4
DIMETHYLANIL	DIMETHYLANILINE(N,N-DIMETHYLANILINE)	121-69-7
DINITROPH, 24	2,4-DINITROPHENOL	51-28-5
DINITRTOL, 24	2,4-DINITROTOLUENE	121-14-2
DIOCTYL PHTH	DIOCTYL PHTHALATE	117-84-0
DIOXANE	1,4-DIOXANE	123-91-1
EPICLHYDRIN	EPICHLOROHYDRIN	106-89-8
EPOXYBUT, 12	1,2-EPOXYBUTANE	106-88-7
ETH ACRYLATE	ETHYL ACRYLATE	140-88-5
ETHYLBENZENE	ETHYLBENZENE	100-41-4
ETHYLENE GLY	ETHYLENE GLYCOL	107-21-1
ETHYLENE OXI	ETHYLENE OXIDE	75-21-8
ETHYLENE THI	ETHYLENE THIOREA	96-45-7
FLUORANTHENE	FLUORANTHENE	206-44-0
FLUORENE	FLUORENE	86-73-7
FORMALDEHYDE	FORMALDEHYDE	50-00-0
GLYCOL ETHRS	GLYCOL ETHERS (MISC.)	
HCL	HYDROCHLORIC ACID	7647-01-0
HEXACL-1, 3-C	1,2,3,4,5,5-HEXACHLORO-1,3-CYCLOPENTADIENE	77-47-4
HEXAMETHYL16	HEXAMETHYLENE-1,6-DIISOCYANATE	822-06-0
HEXANE	N-HEXANE	110-54-3
HEXCHLORETH	HEXACHLOROETHANE	67-72-1
HEXCL-13-BUT	HEXACHLORO-1,3-BUTADIENE	87-68-3
HEXCLBENZENE	HEXACHLOROBENZENE	118-74-1
HF	HYDROGEN FLUORIDE	7664-39-3
HYDROGEN CYA	HYDROGEN CYANIDE	74-90-8
HYDROQUINONE	HYDROQUINONE	123-31-9
INDN(123CDPY	INDENO(1,2,3-C,D)PYRENE	193-39-5
ISOPHORONE	ISOPHORONE	78-59-1
LEAD	LEAD	7439-92-1
LEAD OXIDE	LEAD OXIDE	1317-36-8
MALEIC ANHYD	MALEIC ANHYDRIDE	108-31-6
MANGANESE	MANGANESE	7439-96-5
MERCURY	MERCURY	7439-97-6
METH ETH KET	METHYL ETHYL KETONE	78-93-3
METH HYDRAZI	METHYL HYDRAZINE	60-34-4
METH IODIDE	METHYL IODIDE	74-88-4
METH ISOBUT	METHYL ISOBUTYL KETONE	108-10-1
METH ISOCYAN	METHYL ISOCYANATE	624-83-9
METH METHACR	METHYL METHACRYLATE	80-62-6
METH TERT BU	METHYL TERT BUTYL ETHER	1634-04-4
METHANOL	METHANOL	67-56-1
METHENE DIAN	4,4-METHYLENE DIANILINE	101-77-9
METHENE(B)4-	METHYLENE(B)4-PHENYLISOCYANATE	101-68-8
METHYL CHLOR	METHYL CHLORIDE	74-87-3
METHYLENE CL	METHYLENE CHLORIDE	75-09-2
NAPHTHALENE	NAPHTHALENE	91-20-3
NICKEL	NICKEL	7440-02-0
NITRBIPHEN, 4	4-NITROBIPHENYL	92-93-3
NITROBENZ	NITROBENZENE	98-95-3
NITROPHENL, 4	4-NITROPHENOL	100-02-7
NITROPROPA, 2	2-NITROPROPANE	79-46-9
NITROSODIMET	N-NITROSODIMETHYLAMINE	62-75-9
NITROSOMORPH	N-NITROSOMORPHOLINE	59-89-2
PCBS	POLYCHLORINATED BIPHENYLS (PCBS)	1336-36-3
PCDD	POLYCHLORINATED DIBENZODIOXINS, TOTAL	
PCDF	POLYCHLORINATED DIBENZOFURANS, TOTAL	
PCP	PENTACHLOROPHENOL (PCP)	87-86-5
PENTCLNITBEN	PENTACHLORONITROBENZENE	82-68-8
PERC	TETRACHLOROETHYLENE	127-18-4

PHENANTHRENE	PHENANTHRENE	85-01-8
PHENOL	PHENOL	108-95-2
PHENYLENED, P	P-PHENYLENEDIAMINE	106-50-3
PHOSGENE	PHOSGENE	75-44-5
PHOSPHORUS	PHOSPHORUS (YELLOW OR WHITE)	7723-14-0
PTHALIC ANH	PTHALIC ANHYDRIDE	85-44-9
PROP IM, 12	1,2-PROPYLENIMINE	75-55-8
PROPIONALDEH	PROPIONALDEHYDE	123-38-6
PROPOXUR	PROPOXUR	114-26-1
PRPLENE DICH	1,2-DICHLOROPROPANE	78-87-5
PRPLENE GLYC	PROPYLENE GLYCOL	57-55-6
PRPLENE OXID	PROPYLENE OXIDE	75-56-9
PYRENE	PYRENE	129-00-0
QUINOLINE	QUINOLINE	91-22-5
QUINONE	QUINONE	106-51-4
SELENIUM	SELENIUM	7782-49-2
STYRENE	STYRENE	100-42-5
TCDD, 2378	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	1746-01-6
TCDF, 2378	2,3,7,8-TETRACHLORODIBENZOFURAN	51207-31-9
TCE, 111	1,1,1-TRICHLOROETHANE	71-55-6
TETCLET, 1122	1,1,2,2-TETRACHLOROETHANE	79-34-5
TOL DIAMIN24	2,4-DIAMINOTOLUENE	95-80-7
TOLUENE	TOLUENE	108-88-3
TOLUENE24DII	TOLUENE-2,4-DIISOCYANATE	584-84-9
TOLUIDINE, O-	O-TOLUIDINE	95-53-4
TRICHLORETHY	TRICHLOROETHYLENE	79-01-6
TRICLBNZ, 124	1,2,4-TRICHLOROBENZENE	120-82-1
TRICLETH, 112	1,1,2-TRICHLOROETHANE	79-00-5
TRICLPHN, 245	2,4,5-TRICHLOROPHENOL	95-95-4
TRICLPHN, 246	2,4,6-TRICHLOROPHENOL	88-06-2
TRIETHAMINE	TRIETHYLAMINE	121-44-8
TRIFLURALIN	TRIFLURALIN	1582-09-8
TRIME-PENTAN	2,2,4-TRIMETHYLPENTANE	540-84-1
VINLIDENE CL	VINYLDENE CHLORIDE	75-35-4
VINYL ACETAT	VINYL ACETATE	108-05-4
VINYL CHLOR	VINYL CHLORIDE	75-01-4
XYLENE, M	M-XYLENE	108-38-3
XYLENE, O	O-XYLENE	95-47-6
XYLENE, P	P-XYLENE	106-42-3
XYLENES ISO	XYLENES (MIXED ISOMERS)	1330-20-7