

Table 6. Results of the urban hazardous air pollutant selection process. Hazardous air pollutants to be used in selecting area sources for regulation under CAAA Section 112k are marked with a boldface **X**. HAPs selected for the integrated urban air strategy, but not for area source selection, are marked with an **O**. HAPs are sorted by 1- availability of publicly reviewed inventory; 2- number of analyses considering it a priority; and 3- ratio of area/total emissions.)

Contaminant	CAS #	ERG Study Survey	CEP Urban Analysis --All Sources	QAQPS Ranking Analysis Top 40		Ratio of Area/Total Emissions	Publicly-Reviewed Emission Data	Selected for 112k	Notes
Tetrachloroethylene (PCE)	127184	X	X	X	16	81.4%	X	<b>X</b>	Identified by at least 2 analyses.
Acrolein	107028	X	X	X	1	66.9%	X	<b>X</b>	Identified by at least 2 analyses.
Ethylene oxide	75218	X	X	X	26	53.0%	X	<b>X</b>	Identified by at least 2 analyses.
Chromium VI and compounds	18540299	X	X	X	5	44.2%	X	<b>X</b>	Identified by at least 2 analyses.
Nickel and compounds	7440020	X	X	X	36	33.0%	X	<b>X</b>	Identified by at least 2 analyses.
Manganese and compounds	7439965	X	X	X	21	26.1%	X	<b>X</b>	Identified by at least 2 analyses.
Formaldehyde	50000	X	X	X	6	23.7%	X	<b>X</b>	Identified by at least 2 analyses.
Vinyl chloride	75014	X	X	X	12	20.2%	X	<b>X</b>	Identified by at least 2 analyses.
Trichloroethylene (TCE)	79016	X	X	X	33	19.3%	X	<b>X</b>	Identified by at least 2 analyses.
Cadmium and compounds	7440439	X	X	X	13	19.1%	X	<b>X</b>	Identified by at least 2 analyses.
Methylene chloride	75092	X	X	X	37	17.7%	X	<b>X</b>	Identified by at least 2 analyses.
Acrylonitrile	107131	X	X	X	23	16.8%	X	<b>X</b>	Identified by at least 2 analyses.
Arsenic and compounds	7440382	X	X	X	17	16.4%	X	<b>X</b>	Identified by at least 2 analyses.
1,3-Butadiene	106990	X	X	X	2	13.3%	X	<b>X</b>	Identified by at least 2 analyses.
Benzene	71432	X	X	X	10	11.2%	X	<b>X</b>	Identified by at least 2 analyses.
Chloroform	67663	X	X	X	20	3.8%	X	<b>X</b>	Identified by at least 2 analyses.
1,2-Dichloroethane (EDC)	107062	X	X	X	18	2.9%	X	<b>X</b>	Identified by at least 2 analyses.
Carbon tetrachloride	56235	X	X	X	25	2.7%	X	<b>O</b>	Identified by at least 2 analyses, among 3 lowest in proportion of area source contributions.
1,3-Dichloropropene	542756		X	X	15	99.8%	X	<b>X</b>	Identified by at least 2 analyses.
Carcinogenic PAHs: 7-PAH		X		X	3	61.8%	X	<b>X</b>	Identified by at least 2 analyses.
2,3,7,8-TCDD (dioxin)	1746016		X	X	8	23.5%	X	<b>X</b>	Identified by at least 2 analyses.
Hexachlorobenzene	118741		X	X	39	22.3%	X	<b>X</b>	Identified by at least 2 analyses.
Polychlorinated biphenyls (PCBs)	1336363		X	X	11	19.9%	X	<b>X</b>	Identified by at least 2 analyses.
Acetaldehyde	75070		X	X	19	18.8%	X	<b>X</b>	Identified by at least 2 analyses.
Lead and lead compounds	7439921	X	X		42	16.7%	X	<b>X</b>	Identified by at least 2 analyses.
Hydrazine, hydrazine sulfate	302012		X	X	35	8.0%	X	<b>X</b>	Identified by at least 2 analyses.
Quinoline	91225		X	X	31	6.3%	X	<b>X</b>	Identified by at least 2 analyses.

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1,2-Dichloropropane (propylene dichloride)	78875		X	X	29	3.6%	X	<b>X</b>	Identified by at least 2 analyses.
1,2-Dibromoethane	106934		X	X	7	1.5%	X	<b>O</b>	Identified by at least 2 analyses, among 3 lowest in proportion of area source contributions.
Coke Oven Emissions	8007452	X		X	9		X	<b>O</b>	Identified by at least 2 analyses, among 3 lowest in proportion of area source contributions.
1,1,2,2-Tetrachloroethane	79345			X	34	79.5%	X	<b>X</b>	Identified by 1 analysis, >25% from area sources.
Mercury and compounds	7439976			X	4	34.5%	X	<b>X</b>	Identified by 1 analysis, >25% from area sources.
Beryllium and compounds	7440417		X		56	27.7%	X	<b>X</b>	Identified by 1 analysis, >25% from area sources.
1,1-Dichloroethylene	75354			X	30	19.3%	X		Identified by 1 analysis, <25% from area sources.
Ethyl acrylate	140885		X		72	12.5%	X		Identified by 1 analysis, <25% from area sources.
Acrylamide	79061		X		47	9.1%	X		Identified by 1 analysis, <25% from area sources.
1,1,2-Trichloroethane	79005		X		52	1.0%	X		Identified by 1 analysis, <25% from area sources.
1,4-Dichlorobenzene	106467				66	86.7%	X		Not identified by any analysis.
4,4'-Methylenediphenyl diisocyanate	101688				77	49.0%	X		Not identified by any analysis.
Bis(2-ethylhexyl)phthalate (DEHP)	117817				68	9.6%	X		Not identified by any analysis.
Styrene	100425				75	6.1%	X		Not identified by any analysis.
Chloromethane (methyl chloride)	74873				48	1.2%	X		Not identified by any analysis.
Xylene (mixed)	1330207	X		X	32	18.6%			No publicly-reviewed inventory.
2-Nitropropane	79469	X		X	24	2.1%			No publicly-reviewed inventory.
Bromomethane (methyl bromide)	74839			X	27	93.0%			No publicly-reviewed inventory.
Cyanide compounds	57125	X			137	58.5%			No publicly-reviewed inventory.
n-Hexane	110543	X			59	30.2%			No publicly-reviewed inventory.
Toluene	108883	X			43	25.2%			No publicly-reviewed inventory.
Naphthalene	91203			X	28	18.6%			No publicly-reviewed inventory.
Glycol ethers		X			44	17.0%			No publicly-reviewed inventory.
Chlorine	7782505			X	40	6.0%			No publicly-reviewed inventory.
N-Nitrosodimethylamine	62759			X	22	4.1%			No publicly-reviewed inventory.
Hydrogen chloride	7647010			X	14	3.2%			No publicly-reviewed inventory.
Heptachlor	76448		X		41	1.6%			No publicly-reviewed inventory.

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Hexachlorocyclopentadiene	77474		X	67	1.3%			No publicly-reviewed inventory.
Benzotrichloride	98077		X	45	1.0%			No publicly-reviewed inventory.
2-Chloro-1,3-butadiene (chloroprene)	126998			X	38	0.0%		No publicly-reviewed inventory.
-Acenaphthene	83329			151	100.0%			No publicly-reviewed inventory.
-Fluoranthene	206440			148	100.0%			No publicly-reviewed inventory.
-Fluorene	86737			149	100.0%			No publicly-reviewed inventory.
-Pyrene	129000			150	100.0%			No publicly-reviewed inventory.
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94757			133	100.0%			No publicly-reviewed inventory.
Carbaryl	63252				98.5%			No publicly-reviewed inventory.
Hexamethylene-1,6-diisocyanate	822060			111	94.9%			No publicly-reviewed inventory.
Chlorobenzene	108907			58	84.1%			No publicly-reviewed inventory.
1,3-Propane sultone	1120714			138	70.0%			No publicly-reviewed inventory.
-Tetraethyl lead	78002				67.5%			No publicly-reviewed inventory.
Acetamide	60355			139	63.6%			No publicly-reviewed inventory.
Pentachlorophenol	87865			108	57.6%			No publicly-reviewed inventory.
-Dibenz[a,j]acridine	224420			140	55.0%			No publicly-reviewed inventory.
Dibenzofuran	132649				54.9%			No publicly-reviewed inventory.
Methyl tertbutyl ether (MTBE)	1634044			51	52.5%			No publicly-reviewed inventory.
Hexachloroethane	67721			104	51.3%			No publicly-reviewed inventory.
Triethylamine	121448			90	45.4%			No publicly-reviewed inventory.
Chromium III and compounds	16065831				44.2%			No publicly-reviewed inventory.
Calcium cyanamide	156627				44.0%			No publicly-reviewed inventory.
-Anthracene	120127			144	35.9%			No publicly-reviewed inventory.
Phosphine	7803512			115	35.5%			No publicly-reviewed inventory.
Isophorone	78591			116	35.0%			No publicly-reviewed inventory.
Cobalt and compounds	7440484			117	32.3%			No publicly-reviewed inventory.
1,1,1-Trichloroethane	71556			49	32.2%			No publicly-reviewed inventory.

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Methyl hydrazine	60344				31.6%			No publicly-reviewed inventory.
Methanol	67561			100	31.0%			No publicly-reviewed inventory.
Ethyl carbamate (urethane)	51796			71	30.6%			No publicly-reviewed inventory.
-Chrysene	218019				28.8%			No publicly-reviewed inventory.
-Antimony trioxide	1309644			89	28.4%			No publicly-reviewed inventory.
-Benz[a]anthracene	56553				24.8%			No publicly-reviewed inventory.
Antimony and compounds	7440360			64	22.0%			No publicly-reviewed inventory.
1,1-Dimethylhydrazine	57147				21.9%			No publicly-reviewed inventory.
Benzyl chloride	100447			70	18.6%			No publicly-reviewed inventory.
Dimethyl sulfate	77781				18.5%			No publicly-reviewed inventory.
Selenium	7782492			126	18.2%			No publicly-reviewed inventory.
Catechol	120809				18.0%			No publicly-reviewed inventory.
Methyl isobutyl ketone	108101			46	16.4%			No publicly-reviewed inventory.
2,2,4-Trimethylpentane	540841				14.9%			No publicly-reviewed inventory.
Propylene oxide	75569			55	14.4%			No publicly-reviewed inventory.
-Benzo[a]pyrene	50328				14.2%			No publicly-reviewed inventory.
Carbonyl sulfide	463581				13.8%			No publicly-reviewed inventory.
Dibutyl phthalate	84742			132	12.7%			No publicly-reviewed inventory.
Dimethyl phthalate	131113				12.7%			No publicly-reviewed inventory.
Asbestos*	1332214				12.0%			No publicly-reviewed inventory.
-Dibenz[a,h]anthracene	53703				11.4%			No publicly-reviewed inventory.
-Hexachlorodibenzo-p-dioxin mixture	19408743			106	10.0%			No publicly-reviewed inventory.
-Benzo[k]fluoranthene	207089				9.6%			No publicly-reviewed inventory.
-Indeno[1,2,3-cd]pyrene	193395				8.6%			No publicly-reviewed inventory.
-Benzo[b]fluoranthene	205992				8.0%			No publicly-reviewed inventory.
Phthalic anhydride	85449			124	8.0%			No publicly-reviewed inventory.
Methoxychlor	72435			142	8.0%			No publicly-reviewed inventory.

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Parathion	56382				145	8.0%			No publicly-reviewed inventory.
Methyl ethyl ketone	78933				73	7.8%			No publicly-reviewed inventory.
Hydrogen fluoride	7664393				60	7.4%			No publicly-reviewed inventory.
Ethylene glycol	107211				103	6.6%			No publicly-reviewed inventory.
Chloroethane (ethyl chloride)	75003				125	6.6%			No publicly-reviewed inventory.
2,4/2,6-Toluene diisocyanate mixture	26471625				63	6.5%			No publicly-reviewed inventory.
Chloroacetic acid	79118				143	6.1%			No publicly-reviewed inventory.
1,4-Dioxane	123911				65	6.1%			No publicly-reviewed inventory.
Acetophenone	98862					6.1%			No publicly-reviewed inventory.
Methyl methacrylate	80626				129	5.9%			No publicly-reviewed inventory.
1,1-Dichloroethane	75343				69	5.8%			No publicly-reviewed inventory.
2-Chloroacetophenone	532274				92	5.6%			No publicly-reviewed inventory.
4,4'-Methylenedianiline	101779				86	5.4%			No publicly-reviewed inventory.
N,N-Dimethylformamide	68122				88	5.3%			No publicly-reviewed inventory.
Phenol	108952				96	5.3%			No publicly-reviewed inventory.
Carbon disulfide	75150				84	5.3%			No publicly-reviewed inventory.
Ethylbenzene	100414				82	5.2%			No publicly-reviewed inventory.
Trifluralin	1582098				105	4.6%			No publicly-reviewed inventory.
Ethylene thiourea (ETU)	96457				130	4.6%			No publicly-reviewed inventory.
Aniline	62533				76	4.4%			No publicly-reviewed inventory.
Methyl isocyanate	624839				122	4.2%			No publicly-reviewed inventory.
Acetonitrile	75058				118	3.7%			No publicly-reviewed inventory.
Bis(2-chloroethyl)ether	111444				80	3.7%			No publicly-reviewed inventory.
1,2-Epoxybutane	106887				128	3.1%			No publicly-reviewed inventory.
Pentachloronitrobenzene	82688				98	3.1%			No publicly-reviewed inventory.
Baygon (propoxur)	114261				152	3.0%			No publicly-reviewed inventory.
Methyl iodide	74884					2.9%			No publicly-reviewed inventory.

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Chloromethyl methyl ether	107302				2.7%			No publicly-reviewed inventory.
1,1-Biphenyl	92524				2.7%			No publicly-reviewed inventory.
2-Methylaniline (o-toluidine)	95534			94	2.6%			No publicly-reviewed inventory.
Diethanolamine	111422			120	2.5%			No publicly-reviewed inventory.
4,4'-Methylene bis(2-chloroaniline)	101144			127	2.5%			No publicly-reviewed inventory.
4-Nitrophenol	100027				2.4%			No publicly-reviewed inventory.
Epichlorohydrin	106898			78	2.3%			No publicly-reviewed inventory.
Phosgene	75445			112	2.3%			No publicly-reviewed inventory.
Styrene oxide	96093			141	2.0%			No publicly-reviewed inventory.
Vinyl acetate	108054			109	1.9%			No publicly-reviewed inventory.
2,4-Dinitrotoluene	121142			123	1.8%			No publicly-reviewed inventory.
Acrylic acid	79107			74	1.7%			No publicly-reviewed inventory.
1,2-Propylenimine (2-methyl aziridine)	75558				1.6%			No publicly-reviewed inventory.
Chlordane	57749			102	1.6%			No publicly-reviewed inventory.
Cumene	98828			93	1.5%			No publicly-reviewed inventory.
Diethyl sulfate	64675				1.3%			No publicly-reviewed inventory.
Bis(chloromethyl)ether	542881			54	1.3%			No publicly-reviewed inventory.
Allyl chloride	107051			79	1.2%			No publicly-reviewed inventory.
2,4,6-Trichlorophenol	88062			134	1.2%			No publicly-reviewed inventory.
Benzidine	92875			57	1.0%			No publicly-reviewed inventory.
3,3'-Dichlorobenzidine	91941			110	1.0%			No publicly-reviewed inventory.
Hexachlorobutadiene	87683			50	1.0%			No publicly-reviewed inventory.
1,2-Dibromo-3-chloropropane	96128			99	1.0%			No publicly-reviewed inventory.
2,4,5-Trichlorophenol	95954			147	1.0%			No publicly-reviewed inventory.
3,3'-Dimethoxybenzidine	119904			135	1.0%			No publicly-reviewed inventory.
3,3'-Dimethylbenzidine	119937			97	1.0%			No publicly-reviewed inventory.
4-Nitrobiphenyl	92933				1.0%			No publicly-reviewed inventory.

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N-Nitrosomorpholine	59892				85	1.0%			No publicly-reviewed inventory.
4-Aminobiphenyl	92671					1.0%			No publicly-reviewed inventory.
p-Dimethylaminoazobenzene	60117				107	1.0%			No publicly-reviewed inventory.
Nitrobenzene	98953				114	1.0%			No publicly-reviewed inventory.
Hydroquinone	123319					0.9%			No publicly-reviewed inventory.
Titanium tetrachloride	7550450				95	0.9%			No publicly-reviewed inventory.
4,6-Dinitro-2-methylphenol	534521					0.9%			No publicly-reviewed inventory.
Bromoform (tribromomethane)	75252				113	0.9%			No publicly-reviewed inventory.
o-Anisidine	90040					0.7%			No publicly-reviewed inventory.
2,4-Dinitrophenol	51285				146	0.7%			No publicly-reviewed inventory.
1,2,4-Trichlorobenzene	120821				87	0.5%			No publicly-reviewed inventory.
Maleic anhydride	108316				61	0.4%			No publicly-reviewed inventory.
N-N-Dimethylaniline	121697					0.4%			No publicly-reviewed inventory.
p-Phenylenediamine	106503					0.3%			No publicly-reviewed inventory.
Propionaldehyde	123386					0.2%			No publicly-reviewed inventory.
Cresols/cresylic acid (isomers and mixture)	1319773				53	0.2%			No publicly-reviewed inventory.
Dichlorvos	62737				131	0.1%			No publicly-reviewed inventory.
-Hydrogen cyanide	74908								No publicly-reviewed inventory.
-Free cyanide	57125								No publicly-reviewed inventory.
Vinyl bromide	593602				121				No publicly-reviewed inventory.
2-Acetylaminofluorene	53963								No publicly-reviewed inventory.
Caprolactam	105602								No publicly-reviewed inventory.
Captan	133062				136				No publicly-reviewed inventory.
Chloramben	133904								No publicly-reviewed inventory.
Chlorobenzilate	510156				101				No publicly-reviewed inventory.
2-Methylphenol (o-cresol)	95487								No publicly-reviewed inventory.
3-Methylphenol (m-cresol)	108394								No publicly-reviewed inventory.

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4-Methylphenol (p-cresol)	106445							No publicly-reviewed inventory.
DDE	72559				62			No publicly-reviewed inventory.
Diazomethane	334883							No publicly-reviewed inventory.
Dimethyl carbamoyl chloride	79447							No publicly-reviewed inventory.
Dinitrotoluene mixture	25321146							No publicly-reviewed inventory.
1,2-Diphenylhydrazine	122667							No publicly-reviewed inventory.
Ethylene imine (aziridine)	151564							No publicly-reviewed inventory.
Hexamethylphosphoramide	680319							No publicly-reviewed inventory.
alpha-Hexachlorocyclohexane (a-HCH)	319846							No publicly-reviewed inventory.
beta-Hexachlorocyclohexane (b-HCH)	319857							No publicly-reviewed inventory.
gamma-Hexachlorocyclohexane (g-HCH,Lindane)	58899							No publicly-reviewed inventory.
technical Hexachlorocyclohexane (HCH)	608731							No publicly-reviewed inventory.
N-Nitroso-N-methylurea	684935							No publicly-reviewed inventory.
Phosphorus (white)	7723140							No publicly-reviewed inventory.
beta-Propiolactone	57578							No publicly-reviewed inventory.
Quinone	106514							No publicly-reviewed inventory.
Toluene-2,4-diamine	95807							No publicly-reviewed inventory.
Toxaphene	8001352							No publicly-reviewed inventory.
o-Xylene	95476				83			No publicly-reviewed inventory.
m-Xylene	108383				81			No publicly-reviewed inventory.
p-Xylene	106423				91			No publicly-reviewed inventory.
-Antimony pentafluoride	7783702							No publicly-reviewed inventory.
-Antimony pentoxide	1314609							No publicly-reviewed inventory.
-Antimony potassium tartrate	304610							No publicly-reviewed inventory.
-Antimony tetroxide	1332816							No publicly-reviewed inventory.
-Arsine	7784421							No publicly-reviewed inventory.
-Arsenic oxide	1327533							No publicly-reviewed inventory.

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-Arsenic pentoxide	1303282							No publicly-reviewed inventory.
-Cadmium oxide	1306190							No publicly-reviewed inventory.
-Chromic chloride	10025737							No publicly-reviewed inventory.
-Cobalt carbonyl	10210681							No publicly-reviewed inventory.
-Barium cyanide	542621							No publicly-reviewed inventory.
-Calcium cyanide	592018							No publicly-reviewed inventory.
-Chlorine cyanide	506774							No publicly-reviewed inventory.
-Copper cyanide	544923							No publicly-reviewed inventory.
-Cyanazine	21725462							No publicly-reviewed inventory.
-Cyanogen	460195							No publicly-reviewed inventory.
-Cyanogen bromide	506683							No publicly-reviewed inventory.
-Cyanogen chloride	506774							No publicly-reviewed inventory.
-Potassium cyanide	151508							No publicly-reviewed inventory.
-Potassium silver cyanide	506616							No publicly-reviewed inventory.
-Silver cyanide	506649							No publicly-reviewed inventory.
-Sodium cyanide	143339							No publicly-reviewed inventory.
-Thiocyanate	THIOCYANATE							No publicly-reviewed inventory.
-Zinc cyanide	557211							No publicly-reviewed inventory.
-Diethylene glycol, monobutyl ether	112345							No publicly-reviewed inventory.
-Diethylene glycol, monoethyl ether	111900							No publicly-reviewed inventory.
-2-Ethoxyethanol (ethylene glycol ethyl e	110805							No publicly-reviewed inventory.
-Ethylene glycol monobutyl ether	111762							No publicly-reviewed inventory.
-2-Methoxyethanol acetate	110496							No publicly-reviewed inventory.
-2-Methoxyethanol	109864							No publicly-reviewed inventory.
-Tetramethyl lead	75741							No publicly-reviewed inventory.
-Methylcyclopentadienyl manganese	12108133							No publicly-reviewed inventory.
-Mercury (elemental)	7439976							No publicly-reviewed inventory.
-Mercuric chloride	7487947							No publicly-reviewed inventory.

Table 6. Results of the urban hazardous air pollutant selection process. Hazardous air pollutants to be used in selecting area sources for regulation under CAAA Section 112k are marked with a boldface **X**. HAPs selected for the integrated urban air strategy, but not for area source selection, are marked with an **O**. HAPs are sorted by 1- availability of publicly reviewed inventory; 2- number of analyses considering it a priority; and 3- ratio of area/total emissions.)

Contaminant	CAS #	ERG Study Survey	CEP Urban Analysis --All Sources	QAQPS Ranking Analysis Top 40	Ratio of Area/Total Emissions	Publicly- Reviewed Emission Data	Selected for 112k	Notes
-Mercury (methyl)	22967926							No publicly-reviewed inventory.
-Nickel refinery dust	NI_DUST							No publicly-reviewed inventory.
-Nickel subsulfide	12035722							No publicly-reviewed inventory.
Polycyclic Organic Matter	POM							No publicly-reviewed inventory.
-Carbazole	86748							No publicly-reviewed inventory.
-Dibenz[a,h]acridine	226368							No publicly-reviewed inventory.
-7H-Dibenzo[c,g]carbazole	194592							No publicly-reviewed inventory.
-Dibenzo[a,e]pyrene	192654				119			No publicly-reviewed inventory.
-Dibenzo[a,i]pyrene	189559							No publicly-reviewed inventory.
-Dibenzo[a,l]pyrene	191300							No publicly-reviewed inventory.
-7,12-Dimethylbenz[a]anthracene	57976							No publicly-reviewed inventory.
-1,6-Dinitropyrene	42397648							No publicly-reviewed inventory.
-1,8-Dinitropyrene	42397659							No publicly-reviewed inventory.
-3-Methylcholanthrene	56495							No publicly-reviewed inventory.
-5-Methylchrysene	3697243							No publicly-reviewed inventory.
-2-Methylnaphthalene	91576							No publicly-reviewed inventory.
-5-Nitroacenaphthene	602879							No publicly-reviewed inventory.
-6-Nitrochrysene	2043937							No publicly-reviewed inventory.
-2-Nitrofluorene	607578							No publicly-reviewed inventory.
-2-Nitrofluorene	607578							No publicly-reviewed inventory.
-1-Nitropyrene	5522430							No publicly-reviewed inventory.
-4-Nitropyrene	57835924							No publicly-reviewed inventory.
-Hydrogen selenide	2148909							No publicly-reviewed inventory.
-Selenious Acid	7783008							No publicly-reviewed inventory.
-Sodium selenate	13410010							No publicly-reviewed inventory.
-Sodium selenite	10102188							No publicly-reviewed inventory.