

Substance Name	CAS Number	Formula	B.P. °C	Filter	ESA Color	Olfactory Threshold mg/m3	TLV mg/m3	TLV PPM	Physiological Action
Dichloroethyl ether	111-44-4	C4H8Cl2O	178,5	A		90	29	5	Irritating to mucous membranes. Eddema lung
Iodine	7553-56-2	I2	184	B		-	1C	0,1C	It irritates the m, u cose. Stomatitis, pharyngitis, edema.
Ethyl Ether	60-29-7	C4H10O	34,6	AX		0,99	1210	400	Unconsciousness, paralysis, lack of appetite. Irritating
Iodine 131	7553-56-2	I2 131	-	Reaktor P3		-	-	-	-
Acetic ether	-	-	-	A		-	-	-	Irritating: mucous membranes, narcotic, anemia, leukocytosis
sodium hydroxide	1310-73-2	NaOH	-	P3		-	2C	-	Corrosive, irritating
Ethane	74-84-0	C2H6	-172	***		-	-	-	Asphyxiant
Ethanolamine	141-43-5	C2H7NO	170,5	A K		5,333	7,5	3	Irritating
Insecticides	-	-	-	AP3		-	-	-	-
Ethylbenzene	100-41-4	C8H10	-	A		8,7	434	100	Irritating to mucous membranes
Iron pentacarbonyl	13463-40-6	C5FeO5	103	COP3		-	0,23	0,1	Nausea, vomiting, unconsciousness. Toxic
1-Chloro-2-[(2-chloroethyl)sulfanyl]ethane	505-60-2	C4H8Cl2S	228	B		-	-	-	Vescicatorio. Strong irritant. Vomiting, Headache
Formaldehyde	50-00-0	CH2O	-19,5	AX		1,47	0,37	0,3	Irritating, pulmonary edema. Carcinogenic
Isocyanates	-	-	-	AP3		-	-	-	-
Methyl formate	107-31-3	C2H4O2	32	AX		500	246	100	Narcotic, irritating to the eyes and respiratory tract
Ethylenediamine	107-15-3	C2H8N2	117,2	A K		0,48	25	10	Caustic
Ethylene	74-85-1	C2H4	-104	**		299	-	-	Asphyxiant
Iodide 131 of methyl	74-88-4	CH3I	-	Reaktor P3		-	-	-	-
Methyl iodide	74-88-4	CH3I	42,5	AX		-	12	2	Carcinogenic suspicion
Dichloromethane	75-09-2	CH2Cl2	39,8	AX		540	174	50	It hurts the eyes, narcotic. Headache, nausea. Carcinogenic suspicion

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Fire Fume -CO	-	-	-	BP3	#808080	-	-	-	-
Dichloropropane	26638-19-7	C3H6Cl2	96,8	A	Yellow	-	347	75	Dermatitis, liver damage, congestion
Furfural	98-00-0	C5H6O2	161,7	A	Yellow	0,24	7,9	2	Irritating. Damage to the eyes
Dichloroethylene	75-35-4	C2H2Cl2	59	AX	Yellow	0,3358	793	200	Irritating and narcotic
DDT	50-29-3	C14H9Cl5	-	AP3	Yellow	5,07	1	-	Action on the central nervous system
Methylene chloride	75-09-2	CH2Cl2	39,8	AX	Yellow	540	174	50	It hurts the eyes, narcotic. Headache, nausea. Carcinogenic suspicion
Dichloroethane	75-34-3	C2H4Cl2	83,5	A	Yellow	445	405	100	irritating irritating
Vinyl chloride	75-01-4	C2ClH3	-13,4	AX	Yellow	-	13	5	Dizziness, anesthetic action, carcinogen
Dimethyl sulfate	77-78-1	C2H6O4S	37,5	AX	Yellow	-	0,52	0,1	Skin burns, conjunctivitis, paralysis. Carcinogenic suspicion..
Hydrazine	302-01-2	N2H4	113,5	K	Green	3	0,013	0,01	Systemic poisoning, carcinogenic suspect
Dioxane	505-22-6	C4H8O2	101	A	Yellow	0,018	90	25	Irritating to the mucous membranes. Liver problems
Hydrocarbons	-	-	>65	A	Yellow	-	-	-	-
Dichloropropene	26952-23-8	C3H4Cl2	75	A	Yellow	-	4,5	1	Strong irritant
NOx	-	-	-	NO P3	Blue	-	-	-	Respiratory irritation, coughing, dyspnoea, pulmonary edema
Diethylamine	109-89-7	C4H11N	55,5	A K	Yellow Green	0,0846	15	5	Dangerous for the eyes
Dimethylformamide	'68-12-2	C3H7NO	152,8	A	Yellow	300	30	10	Irritating, liver damage
Dimethylhydrazine	57-14-7	C2H8N2	63,3	K	Green	12	0,025	0,01	Irritating, suspicious carcinogen
Hexachlorocyclohexane	319-86-8	C6H6Cl6	-	AP3	Yellow	-	0,5	-	Irritating acts on the central nervous system, Convulsions, edema
Pyridine	110-86-1	C5H5N	115,3	A	Yellow	0,009	16	5	Narcotic, irritating, headache, eczema
Powders	-	-	-	P3	Yellow	-	-	-	-

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Trichloroethylene	79-01-6	C2HCl3	87,1	A	 	1,134	269	50	Headache gastritis and soreness
Propane	74-98-6	C3H8	-41	**	 	1800	-	-	Anesthetic, asphyxiating
Carbon oxide	630-08-0	CO	-191	CO	 	-	29	25	Strongly toxic, nausea, headache, dizziness
Ethylene oxide	75-21-8	C2H4O	10,7	AX	 	520	1,8	1	Strongly toxic, nausea, respiratory disturbances
Turpentine oil	8006-64-2	-	160	A	 	560	55,60	100	Visual headache, irritating headache
Tetraethylplumbane	78-00-2	C8H20Pb	198	AP3	 	-	0,1	-	Insomnia, hypothermia, tremitis, headache, nausea
Ethane trichloride	79-00-5	C2H3Cl3	74,1	A	 	542,8	1910	350	Narcotic, irritating
Trifluoromethane	75-46-7	CHF3	-163	***	 	-	5600C	1000C	Gastric disorders, headache, and soreness
TDI	584-84-9	C9H6N2O2	-	***	 	-	-	-	Bronchitis spasms dermatitis
Acetylene tetrachloride	79-34-5	C2H2Cl4	146,3	A	 	21	6,9	1	Nausea, vomiting, headache, gastrointestinal disorders
toluene diisocyanate	91-64-5	C9H6O2	118	A	 	3,2	0,036	0,005	Bronchitis spasms dermatitis
Toluene	95-53-4	C7H9N	110,4	A	 	17,55	188	50,00	Toxic, irritating. Carcinogenic suspicion
TCE	79-34-5	C2H2Cl4	-	***	 	-	-	-	Headache gastritis and soreness
Carbon disulfide	75-15-0	CS2	46,5	AX	 	0,0243	31	10	Headache, dizziness, delirium, vomiting
Spray paint	-	-	-	AP2	 	-	-	-	Irritating, narcotic
Xylene, mixture of isomers	1330-20-7	C8H10	144,4	A	 	0,348	434	100	Toxic, irritating. Carcinogenic suspicion
Styrene	100-42-5	C8H8	146	A	 	0,43	85	20	Mystique, fissure, narcotic irritation
Methane	74-82-8	CH4	-161,5	**	 	-	-	-	Asphyxiant
Phosphorus trichloride	7719-12-2	PCl3	74,2	B	 	-	1,1	0,2	Irritating to eyes, nose, throat
2-Methoxyethanol	109-86-4	C3H8O2	156,4	A	 	0,288	24,00000	5,00	Irritating to occurring, kidney injury.

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Carbonyl chloride	75-44-5	COCl2	8,3	B		2	0,4	0,1	Irritating. Pulmonary edema. Very toxic
Phosphorus pentachloride	10026-13-8	PCl5	166,8	B		-	0,85	0,1	Eye damage. Irritating
Hydrogen phosphide	7803-51-2	PH3	-87	B		0,028	0,42	0,3	Irritating. Anemia, appetite, bone fragility
Mercury vapors	502-39-6	Hg	356,9	HgP3	Red	-	0,025	-	Inflammation of the mucous membranes, gingivitis, tremors
Phosphoryl trichloride	10025-87-3	POCl3	105	B		-	0,63	0,1	Eye damage. Irritating
Lindane	58-89-9	C6H6Cl6	-	***		-	-	-	Irritating, acts as a central nervous system
Freon	-	-	-	***		-	-	-	Asphyxiating, narcotic
Nickel carbonyl	13463-39-3	Ni(CO)4	43	COP3	Black	0,21	0,12	0,05	Dizziness, gastric disorders, haemorrhage, carcinogenicity
Acrylic nitrile	-	-	-	***		-	-	-	Highly toxic, headache, convulsions, dizziness, carcinogenicity
Nitrobenzene	98-95-3	C6H5NO2	210,9	A	Yellow	0,0235	5,00	1,00	Cyanosis, headache, dizziness, nausea
Nitroglycerin	55-63-0	C3H5N3O9	-	A	Yellow	-	0,46	0,05	Headache, dizziness, cirrhosis, tremors
Nitrogen Oxide	10102-44-0	NO2	21	NO P3	Blue	2	5,6	3	Respiratory irritation, coughing, dyspnoea, pulmonary edema
Methylethylketone (MEK)	78-93-3	C4H8O	79,5	A	Yellow	0,7375	590	200,000	Narcotic irritant
Fumes	-	-	-	P3		-	-	-	-
Fire Fume + CO	-	-	-	COP3	Black	-	-	-	-
Fog (in general)	-	-	-	P3		-	-	-	-
Isoamyl alcohol	137-32-6	C5H12O	116	A	Yellow	25,2	361	100	Irritating eyes and respiratory tract
Isopropyl alcohol	67-63-0	C3H8O	80,3	A	Yellow	7,84	983	400	Irritating , eyes damages, narcotic
Carbon tetrachloride	56-23-5	CCl4	76,8	A	Yellow	60	31	5	Headache, vomiting, dizziness, liver disorders
Methyl alcohol	67-56-1	CH4O	64,5	AX	Yellow	13,11	262	200	Harmful nervous system, optic nerve, liver. Dermatitis, nausea

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Butyl alcohol (n-)	75-65-0	C4H10O	99,5	A		219	303	100	Narcotic, dermatitis, liver damage and eyes
Acrylonitrile	107-13-1	C3H3N	77,3	A B		8,1	4,3	2	Highly toxic, headache, convulsions, dizziness, suspect carcinogen
Ethanol	64-17-5	C2H6O	78,3	A		0,34	1880	1000	Irritating eyes and respiratory tract
Acrolein	107-02-8	C3H4O	52,5	A		0,05	0,23 C	0,1 C	Irritating eyes and respiratory tract
Furfuryl alcohol	98-00-0	C5H6O2	171	A		32	40	10	Poison, high toxicity
Arsenic anhydride	1327-53-3	As2O3	-	BP3		-	0,01	-	carcinogen
cyclohexanol	108-93-0	C6H12O	161,5	A		400	206	50	narcotic. It damages kidneys, liver, blood vessels
Carbon dioxide	124-38-9	CO2	-	***		-	9000	5000	asphyxiating
Cyclohexanone	108-94-1	C6H10O	155,6	A		0,48	100	25	Poor, narcotic, irritant
Cyclohexane	110-82-7	C6H12	80,7	A		1,43	1030	300	Irritating to the skin
Asbestos	1332-21-4	-	-	P3		-	-	0,2	carcinogen
Ketene	463-51-4	C2H2O	-56	AX		-	0,86	0,50	Irritating, pulmonary edema
Ammonia	7664-41-7	NH3	-33,3	K		0,026	17	25	Irritating eyes and respiratory tract, bronchitis edema
Cyanogen	57-12-5	CN-	-21	B		500	21	10	Irritating mucous membranes, headache, nausea. Mortal
Acetaldeide-eng	75-07-0	CH3CHO	28,8	AX		0,0002	45C	25C	Irritante: naso occhi; emicrania; tosse
Ethyl acetate	141-78-6	CH3COOC2H5	77,15	A		0,0196	400	1440	Irritates mucous membranes, narcotic, anemia, leukocytosis
Hydrogen fluoride	7664-39-3	HF	19,4	B		0,033	2,3C	3C	Toxic, corrosive, causes burns, inflammatory
Vinyl acetate	108-05-4	C4H6O2	73	A		0,36	35	10	Irritating skin, narcotic
Formic acid	64-18-6	CH2O2	100,8	A		0,0045	9,4	5	Corrosive, ulcerative, irritant: mucous membranes
Chlorosulfonic acid	7790-94-5	HSO3Cl	151	BP3		-	-	-	Lacrimogen, sneezing

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Acetaldehyde	75-07-0	CH3CHO	28,8	AX		0,0002	45C	25C	irritates nose, eyes ,cough headache
Amyl acetate	123-92-2	CH3COOC5H11	148	A		0,026	150	713	irritates eyes, nose, throat. Nausea,cough, hemicrania
Hydrogen chloride	7647-01-0	HCl	-84,8	B E		7	7,5C	5C	Caustic, irritating, causes dermatitis
n-Butyl acetate	123-86-4	CH3COO(CH2)3CH3	126	A		0,009	150	730	irritates eyes, nose, throat. Nausea,cough, hemicrania
Acetylene	74-86-2	C2H2	-84	***		657,2	nn	nn	asphyxiating
Nitric acid	7697-37-2	HN03	86	BP3		0,75	5,2	2	Toxic, corrosive, pulmonary edema.
Hydrogen bromide	10035-10-6	HBr	126	B		6,66	9,9 C	3 C	Highly toxic, depression, skin rash
Hydrogen sulfide	7783-06-4	H2S	-60,4	B		0,00007	14	10	Irritating, Headache, cough very toxic
Hydrogen cyanide	74-90-8	HCN	25,7	B		0,9	5 C	4,7 C	Highly toxic, headache, convulsions, dizziness
Sulfuric acid	7664-93-9	H2S04	330	EP3		1	-	-	Caustic, destroys tissues, loss of knowledge;
Acetone	67-64-1	C3H60	56,6	AX		47,5	1188	500	Irritating: skin, mucous membranes, respiratory tract
Hydrogen iodide	10034-85-2	HI	-35,3	B		-	-	-	Rrritating the mucous membranes. Stomatitis, pharyngitis edema.
Acetonitrile	75-05-8	C2H3N	1,1	A		70	67	40	Highly toxic, headache, convulsions, dizziness
Acetic acid	64-19-7	C2H402	118	A		2,5	25	10	Caustic, irritating, causes dermatitis
chloroprene	126-99-8	C4H5Cl	59,4	AX		-	36	10	Toxic central nervous system
Ethyl bromide	74-96-4	C2H5Br	38,4	AX		890	22	5	Toxic narcotic. Causal conjunctivitis. Carcinogenic suspicion
Allyl chloride	107-05-1	C3H5Cl	44,6	AX		1,41	3	1	Mucous irritants, liver and kidney damage
Bromomethane	74-83-9	CH3Br	3,56	AX		80	9	1	Irritating nerve and vascular disorders
Benzyl bromide	100-39-0	C7H7Br	198	A		-	-	-	Tear gas and toxic
1-Chloro-1-nitropropane	600-25-9	C3H6ClNO2	134	A		-	10	2	Irritating

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Bromotoluene	95-46-5	C7H7Br	183,7	A		-	-	-	irritating
bromotrifluoroethylene	598-73-2	C2BrF3	-2,5	AX		-	-	-	Toxic damage the kidneys, liver. Cause of nausea
chloropicrin	76-06-2	CCl3NO2	112	AP3		5,4	0,67	0,1	Irritating, tear gas. Gastric disorders, vomiting
3-Chloro-1-propyne	624-65-7	C3H3Cl	31,6	AX		2000	20	5	Dizziness, anesthetic action, carcinogen
Cresol	1319-77-3	C7H8O	200	A		0,0012	22	5	Ulcerates skin, casus conjunctivitis
Chloroethane	75-00-3	C2H5Cl	12,3	AX		21	264	100	Drowsiness, apathy, visual disturbances, tremor
CS	-	-	-	ABEP3		-	-	-	lachrymatory
Ethyl methyl ketone	78-93-3	C4H8O	79,5	A		0,7375	590	200	Narcotic irritant
Benzyl chloride	100-44-7	C7H7Cl	179	A		0,235	5,2	1	It irritates the mucous membranes strongly carcinogenic
Isobutylene	115-11-7	C4H8	-6,9	AX		54,96	-	-	Toxic corrosive. Irritating the skin. Pulmonary edema
Cyanogen chloride	506-77-4	CNCl	13,1	B		2	0,75 C	0,3C	Loss and leukemia
Sulfur Chloride	10025-67-9	S2Cl2	138	BP3		-	5,5 c	1C	It irritates the mucous membranes of the eyes and the respiratory tract.
Methyl Chloride	74-87-3	CH3Cl	-23,7	***		-	103	50	Narcotic, it destroys eyes, liver, heart and central nervous system
Bromoform	75-25-2	CHBr3	149,5	A		5300	5,2	0,5	Irritates the mucous membranes. At high doses it is deadly
Phthalic anhydride	85-44-9	C8H4O3	295	AP3		-	6,1	1	Irritating mucous membranes and cornea
chloroacetone	78-95-5	C3H5ClO	119	AP3		-	3,8C	1 C	tear
Sulfur dioxide	7446-09-5	SO2	-10	E		1,17	5,2	2	harmfull for eyes and respiratory tract, bronchitis edema
chlorobenzene	108-90-7	C6H5Cl	131,7	A		0,98	46	10	Toxic to the central nervous system, spasms headache
aniline	62-53-3	C6H7N	184,4	A		0,0002	7,6	2	Harmful central nervous system, eye disorders, tumors
Clorobromometano	74-97-5	BrCH2Cl	67,8	A		2100	1060	200	Irritating and narcotic

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Maleic anhydride	108-31-6	C4H2O3	202	A		1,84	1	0,25	Burns skin and eyes, pulmonary edema
Chlorine	7782-50-5	Cl2	-34,5	B		0,03	1,5	0,5	Toxic, corrosive. Irritating the skin. Pulmonary edema
Sulfur trioxide	7446-11-9	SO3	44,8	EP3		-	-	-	harmfull for eyes and respiratory tract, bronchitis edema
Chloroacetophenone (CAF)	99-91-2	C8H7ClO	237	AP3		0,102	0,32	0,05	Strongly tear gas
Chlorine dioxide	10049-04-4	ClO2	9,9	B		0,3	0,28	0,1	Irritating the mucous membranes. Stomatitis, pharyngitis edema.
Bromine	7726-95-6	Br2	58,73	B		0,329	0,66	0,1	Irritates respiratory system burns on the skin
Bromoacetic acid methyl ester	96-32-2	C5H6OBr	136	A		-	-	-	Tear gas, toxic
Chloroform	67-66-3	CHCl3	61,26	AX		250	49	10	Narcotic, irritates mucous membranes, unconsciousness. Carcinogenic suspicion
Beryllium	7440-41-7	Be	2970	P3		-	0,002	-	Lung diseases. Carcinogenic suspicion
Arsenic	7440-38-2	As4	-	P3		-	0,01	-	Highly toxic, carcinogen
arsine	7784-42-1	AsH3	-55	B		0,84	0,16	0,05	Headache, gastric disorders
Benzene	71-43-2	C6H6	80	A		4,5	1,6	0,5	Toxic, Irritating, carcinogen.
Petrol (Steam)			-	A		-	890	300	Eye disorders, carcinogen