

• optrel®



Filter protection guide

## HOW TO USE THIS FILTER PROTECTION GUIDE

1. Identify the chemical substance of the material to be welded

2. Choose the filter with the corresponding colours for your optrel e1100, e2100 or e3000 system



for optrel e1100



TH3P R SL

WHITE

for optrel e2100



TH2P R SL

WHITE



TH2A2P SL

WHITE

BROWN



TH2A2B2E2SXPSL

WHITE

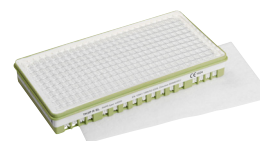
RUBY

YELLOW

GRAY

BROWN

for optrel e3000



TH3P R SL

WHITE

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
DIALYL PHTHALATE	C14 H14 O4		P	
2,2'-DIAMINODIETHYLAMINE	C4 H14 N3	A	P	
4,4'-DIAMINODIPHENYLMETHANE	(4-H8 N C6) C7 H7	A	P	
1,2-DIAMINOETHANE	N2 H8 C2	A	P	
DIAMMONIUM PEROXODISULPHATE (MEASURED AS [S2-O8])	N2 H8 S2 O8		P	
6-DIANISIDINE	Z(2-(C H3 O) C8 H6 N2)		P	
6-DIANISIDINE SALTS	Various		P	
DIARSENIC TRIOXIDE	A S2 O3		P	
DIATOMACEOUS EARTH, NATURAL, RESPIRABLE DUST	SiO2		P	
DIAZINON (ISO)	C12 H21 N2 O3 P S	A	P	
DIAZOMETHANE	C H2 N2	B	P	
DIBENZ(a,h)ANTHRACENE	C22 H14	A	P	
DIBENZOYL PEROXIDE	C14 H10 O4	A	P	
DIBSMUTH TRITELLURIDE	Bi2 Te3		P	
DIBSMUTH TRITELLURIDE, SELENIUM DOPED	Bi2 Te3		P	
DIBORON TRIOXIDE	B2 O3		P	
DIBROM	as Naled	A	P	
1,2-DIBROMO-3-CHLOROPROPANE	Br2 C3 H5 Cl	A	P	
1,2-DIBROMO-2,2-DICHLOROETHYLMETHYL PHOSPHATE	C4 H7 Br2 Cl2 O4 P	A	P	
DIBROMODIFLUOROMETHANE	C Br2 F2	AX		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	Br2 C2 H4	A	P	
DIBUTYL HYDROGEN PHOSPHATE	C8 H19 O4 P	A	P	
Di-n-BUTYL PHOSPHATE	as Dibutyl hydrogen phosphate	A	P	
DIBUTYL PHTHALATE	C16 H22 O4	A	P	
6,6'-DI-TERT-BUTYL-4,4'-THIODI-M-CRESOL	C22 H30 O2 S		P	
1,2-DICHLOROETHYLENE	C2 H4 Cl2	A		
1,4-DICHLOROETHYLENE	C2 H4 Cl2	A		
1,3-DICHLORO-5,5-DIMETHYL-HYDANTOIN	C5 H6 Cl2 N2 O2	ABE	P	
DICHLORODIPHENYL-TRICHLOROETHANE a	as 1,1,1-Trichlorobis (chlorophenyl) eth		P	
1,1-DICHLOROETHANE	C2 H4 Cl2	AX		
1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	C2 H4 Cl2	A		
1,1-DICHLOROETHYLENE	C2 H2 Cl2	AX		
1,2-DICHLOROETHYLENE, CIS:TRANS ISOMERS 60:40	C2 H2 Cl2	AX		
DICHLOROMETHANE	C H2 Cl2	AX or SX		
2,2'-DICHLORO-4,4'-METHYLENE-DIANILINE (MbOCA)	C13 H12 Cl2 N2	A	P	
2,2'-DICHLORO-4,4'-METHYLENE DIANILINE SALTS	Various	A	P	
2,4-DICHLOROPHOENOXACETIC ACID	C8 H8 Cl2 O3		P	
1,3-DICHLORO-2-PROPANOL	C1 C2 H4	A	P	
DICHLORVOS (ISO)	C4 H7 Cl2 O4 P	A	P	
DICYCLOHEXYL PHTHALATE	C20 H26 O4	A	P	
DICYCLOPENTADIENE	C10 H12	A	P	
DICYCLOPENTADIENYLIRON	as Ferrocene	A	P	
DIELDRIN (ISO)	C12 H8 Cl6 O	A	P	
DIETHANOLAMINE	as 2,2'-aminodiethanol	A	P	
DIETHYLAMINE	C4 H11 N	K		
2-DIETHYLAMINOETHANOL	C6 H15 N O	K		
DIETHYLENE GLYCOL	as 2,2'-Oxydiethanol	A	P	
DIETHYLENE TRIAMINE	as 2,2'-Aminodi(ethylamine)	A	P	

### TH2P R SL / TH3 R SL (Particle filter)

is a particle filter that provides protection against all types of particles. The filter separates no less than 99,998% of the pollution in the air. Filter active area is 750 cm<sup>2</sup>. The filter is designed for use in CA Chemical powered respiratory units or any full face mask and conforms with EN 12941.

### TH2A2P SL (Gas filter)

is a combined filter that provides protection against all types of particles and gases in class A2P. The filter separates no less than 99,998% of the pollution in the air. Particle filter active area is 750cm<sup>2</sup>. The filter is designed for use in CA Chemical and CA Smart powered respiratory units or only for full face mask and conforms with EN 12941.

### TH2A2B2E2SXPSL (Chemical Filter / Ozon Filter)

is a combined filter that provides protection against all types of particles and gases in class A2B2E2SXP and ozone. The filter separates no less than 99,998% of the pollution in the air. Particle filter active area is 750cm<sup>2</sup>. The filter is designed for use in CA Chemical and CA Smart powered respiratory units or only for full face mask and conforms with EN 12941.

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
AGE	C6 H10 O2	A		
ACETALDEHYDE	C2 H4 O	AX		
ACETIC ACID	C2 H4 O2	A	P	
ACETIC ANHYDRIDE	C4 H6 O3	A		
ACETONE	C3 H6 O	AX		
ACETONITRILE	C2 H3 N	A		
o-ACETYLSALICYLIC ACID	C9 H8 O4		P	
ACROLEIN	C3 H4 O	AX		
ACRYLALDEHYDE	C3 H4 O	AX		
ACRYLAMIDE	C3 H5 N O	A	P	
ACRYLIC ACID	C3 H4 O2	A		
ACRYLONITRILE	C3 H3 N	A		
ALDRIN (ISO)	C12 H8 Cl6	A	P	
ALLYL ALCOHOL	C3 H6 O	A		
ALLYL 2,3-EPOXYPROPYL ETHER	C6 H10 O2	A		
ALLYL GLYCIDYL ETHER	C6 H10 O2	A		
ALPHA-CHLOROTOLUENE	C7 H7 Cl	A		
ALUMINIUM ALKYL COMPOUNDS	Various		P	
ALUMINIUM METAL (RESPIRABLE DUST)	Al		P	
ALUMINIUM OXIDE (RESPIRABLE DUST)	Al2 O3		P	
ALUMINIUM SALTS, SOLUBLE	Al		P	
4-AMINOAZOBENZENE	4 H11 N3 C12	A	P	
4-AMINO-3-FLUOROPHENOL	3 F 24H N4 C24 O4	A	P	
AMINODIMETHYLBENZENE	as Xylidine	A		
2-AMINOETHANOL	C2 H7 N O	A		
2-AMINOPYRIDINE	C5 H6 N2	A	P	
AMMONIA	H3 N	K		
AMMONIUM CHLORIDE, FUME	H4 Cl N	K	P	
AMMONIUM SULPHAMATE	H6 N2 O3 S		P	
n-AMYL ACETATE	as Pentyl Acetate	A		
sec-AMYL ACETATE	as 1-Methylbutyl Acetate	A		
ANILINE	C6 H7 N	A		
ANISIDINES, O- AND P-ISOMERS	C7 H9 N O	A	P	
ANTIMONY AND COMPOUNDS (AS SB)	Sb		P	
ANTIMONY TRIOXIDE	O3 Sb2		P	
ANTIMONY TRISULPHIDE	S3 Sb2		P	
p - ARAMID RESPIRABLE FIBRES	(C14 H10 O2 N2)n		P	
ARSENIC ACID & ITS SALTS	As H O3		P	
ARSENIC PENTOXIDE	As2 O5		P	
ARSENIC TRIOXIDE	As2 O3		P	
ARSENIC & COMPOUNDS EXCEPT ARSINE	As		P	
ASBESTOS	n/a		P	
ASPHALT, PETROLEUM FUMES	n/a	A	P	
ASPIRIN	as o-Acetylsalicylic Acid		P	
ATRAZINE (ISO)	C8 H14 Cl N5		P	
AZINPHOS-METHYL (ISO)	C10 H12 N3 O3 P S2	A	P	
AZIRIDINE	C2 H5 N	AK		
AZODICARBONAMIDE	C2 H4 N4 O2		P	
BGE	C7 H14 O2	A		
γ-BHC (ISO)	as Lindane	A	P	
BARIUM COMPOUNDS SOLUBLE (AS BA)	Ba		P	
BARIUM SULPHATE, RESPIRABLE DUST	BaO4 S		P	
BARIUM SULPHATE, TOTAL INHALABLE DUST	BaO4 S		P	
BENOMYL (ISO)	C14 H18 N4 O3	A	P	
BENZENE	C6 H6	A		
BENZENETHIOL	C6 H6 S	A		
BENZENE-1,2,4-TRICARBOXYLIC ACID 1,2-ANHYDRIDE	C9 H4 O5	A	P	
TRICARBOXYLIC ACID 1,2-ANHYDRIDE				
BENZIDENE SALTS	Various	A	P	
BENZIDINE	C12 H12 N2	A	P	
BENZO-(a)-ANTHRACENE	C18 H12	A	P	
BENZO-(a)-PYRENE	C20 H12	A	P	
BENZO-(b)-FLUORANTHENE	C20 H12	A	P	
BENZO-(j)-FLUORANTHENE	C20 H12	A	P	



Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
BENZO-(k)-FLUORANTHENE	C20 H12	A	P	
p-BENZOQUINONE	C6 H4 O2	A	P	
BENZOYL PEROXIDE	as Dibenzoyl Peroxide	A	P	
BENZYL BUTYL PHTHALATE	C19 H20 O4	A	P	
BIPHENYL	C12 H10	A	P	
2,2 - BIS (p - CHLOROPHENYL) - 1,1,1-TRICHLOROETHANE	as Methoxychlor	A	P	
BIS(2,3-EPOXYPROPYL) ETHER	C6 H10 O3	A	P	
BIS(2-ETHYLHEXYL) PHTHALATE	C24 H38 O4	A	P	
2,2-Bis(P-METHOXYPHENYL)-1,1,1-TRICHLOROETHANE	C16 H15 Cl3 O2	A	P	
BISMUTH TELLURIDE	as Dibismuth tritelluride		P	
BISMUTH TELLURIDE,SELENIUM DOPED (SD)	as Dibismuth tritelluride(SD)		P	
BORATES, (Tetra) SODIUM SALTS	as Disodium tetraborate		P	
BORNAN-2-ONE	C10 H16 O	A	P	
BORON OXIDE	as Diboron trioxide		P	
BROMACIL (ISO)	C9 H13 Br N2 O2	A	P	
BROMINE	Br2	B	P	
BROMOCHLOROMETHANE	CH2 Br Cl	AX		
BROMOETHANE	C2 H5 Br	AX		
BROMOETHYLENE	C2 H3 Br	AX		
BROMOFORM	C H Br3	A		
BROMOMETHANE	C H3 Br	AX		
1,3-BUTADIENE	C4 H6	AX		
BUTAN-1-OL	C4 H10 O	A		
BUTAN-2-OL	C4 H10 O	A		
BUTAN-2-ONE	C4 H8 O	A		
BUTANE	C4 H10	AX		
2-BUTOXYETHANOL	C6 H14 O2	A	P	
BUTYL ACETATE	C6 H12 O2	A		
SEC-BUTYL ACETATE	C6 H12 O2	A	P	
TERT-BUTYL ACETATE	C6 H12 O2	A		
BUTYL ACRYLATE	C7 H12 O2	A		
n-BUTYL ALCOHOL	as Butan-1-ol	A		
sec-BUTYL ALCOHOL	as Butan-2-ol	A		
tert-BUTYL ALCOHOL	as 2-Methylpropan-2-ol	A		
N-BUTYLAMINE	C4 H11 N	A		
N-BUTYL CHLOROFORMATE	C5 H10 Cl O2	A		
BUTYL-2,3-EPOXYPROPYL ETHER	C7 H14 O2	A		
n-BUTYLGLYCIDYL ETHER	C7 H14 O2	A		
BUTYL LACTATE	C7 H14 O3	A	P	
2-SEC-BUTYLPHENOL	C10 H14 O	A		
CADMIUM & CADMIUM COMPOUNDS EXCEPT CADMIUM OXIDE FUME & CADMIUM SULPHIDE PIGMENTS	Cd		P	
CADMIUM OXIDE FUME (AS CD)	Cd O		P	
CADMIUM SULPHIDE PIGMENTS RESPIRABLE DUST (AS CD)	Cd S		P	
CAESIUM HYDROXIDE	Cs H O		P	
CALCIUM CARBONATE	C O3 Ca		P	
CALCIUM CYANAMIDE	C N2.Ca		P	
CALCIUM HYDROXIDE	Ca H2 O2		P	
CALCIUM OXIDE	Ca O		P	
CALCIUM SILICATE	Ca2 Si O3		P	
CAMPHOR , SYNTHETIC	as Bornan-2-one	A	P	
e-CAPROLACTAM	"as 1,6,Hexanolactam"	A	P	
CAPTAFOL (ISO)	C10 H9 Cl4 N O2 S	A	P	
CAPTAN (ISO)	C9 H8 Cl3 N O2 S	A	P	
CARBARYL (ISO)	C12 H11 N O2	A	P	
CARBOFURAN (ISO)	C12 H15 N O3	A	P	
CARBON BLACK	C		P	
CARBON DISULPHIDE	C S2	B	P	
CARBON TETRABROMIDE	C Br4	A	P	
CARBON TETRACHLORIDE	C Cl4	A		
CARBONYL CHLORIDE	as Phosgene	B	P	
CATECHOL	as Pyrocatechol	A	P	
CELLULOSE	n/a		P	
CEMENT	as Portland Cement		P	
CHLORDANE (ISO)	C10 H6 Cl8	A	P	
CHLORINE	Cl2	B		
CHLORINE DIOXIDE	Cl O2	B		

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
CHLORINE TRIFLUORIDE	Cl F3	B		
CHLOROACETALDEHYDE	C2 H3 Cl O	A		
2-CHLOROALLYL DIETHYLDITHIOCARBAMATE		A	P	
CHLOROALKANES (C10 - C13)		A	P	
2-CHLOROACETOPHENONE	C8 H7 Cl O	A	P	
1-CHLORO-2,3-EPOXY-PROPANE	C3 H5 Cl O	A		
CHLOROACETYL CHLORIDE	C2 H2 Cl2 O	A	P	
CHLOROBENZENE	C6 H5 Cl	A		
CHLOROBROMOMETHANE	as Bromochloromethane	AX		
2-CHLOROBUTA-1,3-DIENE	C4 H5 Cl	AX	P	
CHLORODIMETHYL ETHER	Cl C2 H5 O	AX		
CHLOROETHANE	C2 H5 Cl	AX		
2-CHLOROETHANOL	C2 H3 Cl O	A		
CHLOROETHYLENE	as Vinyl Chloride	AX		
CHLOROFORM	C H Cl3	AX		
1-CHLORO-4-NITROBENZENE	C6 H4 Cl N O2	A	P	
CHLOROPICRIN	as Trichloronitromethane	A		
b-CHLOROPRENE	as 2-Chlorobuta-1,3-diene	AX	P	
3-CHLOROPROPENE	C3 H5 Cl	AX		
CHLOROSULPHONIC ACID	H Cl O3 S	B	P	
2-CHLOROTOLUENE	C7 H7 Cl	A		
2-CHLORO-6-(TRICHLOROMETHYL)PYRIDINE	C6 H3 Cl4 N	A	P	
CHLORPYRIFOS (ISO)	C9 H11 Cl3 N O3 P S	A	P	
CHROMIUM	Cr		P	
CHROMIUM (II) COMPOUNDS (AS CR)	Cr		P	
CHROMIUM (III) COMPOUNDS (AS CR)	Cr		P	
CHROMIUM (VI) COMPOUNDS (AS CR)	Cr		P	
CHROMIUM TRIOXIDE	Cr O3		P	
CLARIFIED OILS (PETROLEUM):				
CATALYTIC CRACKED	n/a	A	P	
HYDRODESULFURISED CATALYTIC CRACKED	n/a	A	P	
COAL DUST, IN MINES	n/a		P	
COAL TAR PITCH VOLATILES (AS CYCLOHEXANE SOLUBLES)	n/a	A	P	
COBALT AND COMPOUNDS (AS CO)	Co		P	
COKE (COAL TAR):				
HIGH TEMPERATURE PITCH	n/a	A	P	
MIXED COAL - HIGH TEMPERATURE PITCH	n/a	A	P	
LOW TEMPERATURE, HIGH TEMPERATURE PITCH	n/a	A	P	
COLOPHONY	as Rosin core solder fume	A	P	
COPPER, DUSTS AND MISTS	Cu		P	
COPPER, FUME	Cu		P	
COTTON DUST	n/a		P	
CRESOLS (ALL ISOMERS)	C7 H8 O	A	P	
CRISTOBALITE	O2 Si		P	
CRYSTALLINE SILICA ( RESPIRABLE)	as Cristobalite		P	
CUMENE	C9 H12	A		
CYANAMIDE	C H2 N2		P	
CYANIDES, EXCEPT HYDROGEN CYANIDE, CYANOGEN & CYANOGEN CHLORIDE, (AS -CN)	C-N	B	P	
CYCLOHEXANE	C6 H12	A		
CYCLOHEXANOL	C6 H12 O	A		
CYCLOHEXANONE	C6 H10 O	A		
CYCLOHEXENE	C6 H10	A		
CYCLOHEXYLAMINE	C6 H13 N	A		
CYCLONITE (RDX)	as Hexahydro-1,3,5-trinitro-1,3,5-triaz		P	
CYHEXATIN (ISO)	C18 H34 O SN		P	
2,4-D (ISO)	C8 H8 Cl2 O3		P	
DGE	as Bis(2,3-epoxypropyl)ether	A	P	
DDM	as 4,4'-Methylenedianiline	A	P	
DDT a	s 1,1,1-Trichlorobis (chlorophenyl)		P	
DDVP	as Dichlorovos	A	P	
2,4-DES	C8 H7 Cl2 O5 S Na		P	
DMDT	as Methoxychlor		P	
DERRIS, COMMERCIAL	as Rotenone		P	
DIACETONE ALCOHOL	as 4-Hydroxy-4-methylpentan-2-one	A		
DIALKYL 79 PHTHALATE	C22-26 H34 38-O4		P	

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
DIALLYL PHTHALATE	C14 H14 O4		P	
2,2'-DIAMINODIETHYLAMINE	C4 H14 N3	A	P	
4,4'-DIAMINODIPHENYLMETHANE	(4-H6 N C6) C7 H7	A	P	
1,2-DIAMINOETHANE	N2 H8 C2	A		
DIAMMONIUM PEROXODISULPHATE (MEASURED AS [S2-O8])	N2 H8 S2 O8		P	
o-DIANISIDINE	2(2-(C H3 O) C6 H6 N2)		P	
o-DIANISIDINE SALTS	Various		P	
DIARSENIC TRIOXIDE	A S2 O3		P	
DIATOMACEOUS EARTH, NATURAL, RESPIRABLE DUST	SiO2		P	
DIAZINON (ISO)	C12 H21 N2 O3 P S	A	P	
DIAZOMETHANE	C H2 N2	B	P	
DIBENZ(a,h)ANTHRACENE	C22 H14	A	P	
DIBENZOYL PEROXIDE	C14 H10 O4	A	P	
DIBISMUTH TRITELLURIDE	Bi2 Te3		P	
DIBISMUTH TRITELLURIDE, SELENIUM DOPED	Bi2 Te3		P	
DIBORON TRIOXIDE	B2 O3		P	
DIBROM	as Naled	A	P	
1,2-DIBROMO-3-CHLOROPROPANE	Br2 C3 H5 Cl	A	P	
1,2-DIBROMO-2,2-DICHLOROETHYLMETHYL PHOSPHATE	C4 H7 Br2 Cl2 O4 P	A	P	
DIBROMODIFLUOROMETHANE	C Br2 F2	AX		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	Br2 C2 H4	A		
DIBUTYL HYDROGEN PHOSPHATE	C8 H19 O4 P	A	P	
Di-n-BUTYL PHOSPHATE	as Dibutyl hydrogen phosphate	A	P	
DIBUTYL PHTHALATE	C16 H22 O4	A	P	
6,6'-DI-TERT-BUTYL-4,4'-THIODI-M-CRESOL	C22 H30 O2 S		P	
1,2-DICHLOROENZENE	C6 H4 Cl2	A		
1,4-DICHLOROENZENE	C6 H4 Cl2	A		
1,3-DICHLORO-5,5-DIMETHYL-HYDANTOIN	C5 H6 Cl2 N2 O2	ABE	P	
DICHLORODIPHENYL-TRICHLOROETHANE a	s 1,1,1-Trichlorobis (chlorophenyl) eth		P	
1,1-DICHLOROETHANE	C2 H4 Cl2	AX		
1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	C2 H4 Cl2	A		
1,1-DICHLOROETHYLENE	C2 H2 Cl2	AX		
1,2-DICHLOROETHYLENE, CIS:TRANS ISOMERS 60:40	C2 H2 Cl2	AX		
DICHLOROMETHANE	C H2 Cl2	AX or SX		
2,2'-DICHLORO-4,4'-METHYLENE-DIANILINE (MbOCA)	C13 H12 Cl2 N2	A	P	
2,2'-DICHLORO-4,4'-METHYLENE DIANILINE SALTS	Various	A	P	
2,4-DICHLOROPHENOXYACETIC ACID	C8 H8 Cl2 O3		P	
1,3-DICHLORO-2-PROPANOL	Cl C2 H4	A	P	
DICHLORVOS (ISO)	C4 H7 Cl2 O4 P	A	P	
DICYCLOHEXYL PHTHALATE	C20 H26 O4	A	P	
DICYCLOPENTADIENE	C10 H12	A	P	
DICYCLOPENTADIENYLIRON	as Ferrocene	A	P	
DIELDRIN (ISO)	C12 H8 Cl6 O	A	P	
DIETHANOLAMINE	as 2,2'-Iminodiethanol	A	P	
DIETHYLAMINE	C4 H11 N	K		
2-DIETHYLAMINOETHANOL	C6 H15 N O	K		
DIETHYLENE GLYCOL	as 2,2'-Oxydiethanol	A		
DIETHYLENE TRIAMINE	as 2,2'-Iminodi(ethylamine)	A	P	
DIETHYL ETHER	C4 H10 O	AX		
DI-(2-ETHYLHEXYL) PHTHALATE	as Bis(2-ethylhexyl) phthalate	A	P	
DIETHYL KETONE	as Pentan-3-one	A		
DIETHYL PHTHALATE	C10 H14 O4	A	P	
DIETHYL SULPHATE	C4 H10 O4 S	AB	P	
DIFLUORODIBROMOMETHANE	as Dibromodifluoromethane	AX		
DIGLYCIDYL ETHER	as Bis (2,3-epoxypropyl) ether	A	P	
o-DIHYDROXYBENZENE	as Pyrocatechol	A	P	
m-DIHYDROXYBENZENE	as Resorcinol	A	P	
p-DIHYDROXYBENZENE	as Hydroquinone	A	P	
1,2-DIHYDROXYETHANE	C2 H6 O2	A	P	
DIISOBUTYL KETONE	as 2,6-Dimethylheptan-4-one	A		
DIISOBUTYL PHTHALATE	C16 H22 O4	A	P	
DIISODECYL PHTHALATE	C28 H46 O4	A	P	
DIISONONYL PHTHALATE	C26 H42 O4	A	P	
DIISOCTYL PHTHALATE	C24 H38 O2	A	P	
DIISOPROPYLAMINE	C6 H15 N	K		
DIISOPROPYL ETHER	C6 H14 O	A		
Di-LINEAR 79 PHTHALATE	C8 H4 O4 (C14_18-H30_38)		P	

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
N,N-DIMETHYLACETAMIDE	C4 H9 N O	A		
DIMETHYLAMINE	C2 H7 N	K		
DIMETHYLAMINOETHANOL	C4 H11 N O	A		
N,N-DIMETHYLANILINE	C8 H11 N	A		
3,3'-DIMETHYLBENZIDINE	H16 N2 C14	A	P	
3,3'-DIMETHYLBENZIDINE - SALTS	Various		P	
1,3-DIMETHYLBUTYL ACETATE	C8 H16 O2	A		
DIMETHYLCARBAMOYL CHLORIDE	C3 H6 N O Cl	A	P	
NN-DIMETHYLETHYLAMINE	C4 H11 N	K		
DIMETHYLFORMAMIDE	C3 H7 N O	A		
2,6-DIMETHYLHEPTAN-4-ONE	C9 H18 O	A		
1,2-DIMETHYLHYDRAZINE	C2 H8 N2	K		
NN-DIMETHYLHYDRAZINE	C2 H8 N2	K		
DIMETHYLNITROSAMINE	C2 H6 N2 O	A	P	
DIMETHYL PHTHALATE	C10 H10 O2		P	
DIMETHYL SULFAMOYL CHLORIDE		A	P	
DIMETHYL SULPHATE	C2 H6 S O4	A	P	
DINICKEL TRIOXIDE	Ni2 O3		P	
DINITROBENZENE, ALL ISOMERS	C6 H4 N2 O4	A	P	
DINITRO- <i>o</i> -CRESOL	as 2-Methyl-4,6-dinitrophenol		P	
DINONYL PHTHALATE	C26 H42 O4		P	
DI- <i>sec</i> -OCTYL PHTHALATE	as Bis(2-ethylhexyl) phthalate	A	P	
1,4-DIOXANE, TECH. GRADE	C4 H8 O2	A	P	
DIOXATHION (ISO)	C12 H26 O6 P2 S4	A	P	
DIPHENYL	as Biphenyl	A	P	
DIPHENYLAMINE	C12 H11 N	A	P	
DIPHENYL ETHER (VAPOUR)	C12 H10 O	A	P	
DIPHOSPHORUS PENTASULPHIDE	P2 S5	B	P	
DIPHOSPHORUS PENTOXIDE	P6 O15		P	
DIPOTASSIUM PEROXODISPULPHATE (MEASURED AS S2O8)	H2 K2 O8 S2	B	P	
DIQUAT DIBROMIDE (ISO)	C12 H12 Br2 N2		P	
DISODIUM DISULPHITE	Na2 S2 O5	B	P	
DISODIUM{5-[4'-(2,6-HYDROXY-3-((2-HYDROXY-5-SULHOPHENYL)AZO)PHENYL)AZO]PHENYL)AZO} (1,1'-BIPHENYL-4YL)AZO]SALICYLATO(4)CUPRATE(2-)			P	
DISODIUM PEROXODISULPHATE (MEASURED AS S2O8)	Na2 O8 S2	B	P	
DISODIUM TETRABORATE, ANHYDROUS	B4 O7 2Na		P	
DISODIUM TETRABORATE, DECAHYDRATE	B4 O7 2Na 20H 10O		P	
DISODIUM TETRABORATE, PENTAHYDRATE	B4 O7 2Na 10H 5O		P	
DISTILLATES (COAL TAR) - VARIOUS	n/a	A	P	
DISTILLATES (PETROLEUM) - VARIOUS	n/a	A	P	
DISULFOTON (ISO)	C8 H19 O2 P S3	ABE	P	
DISULPHUR DICHLORIDE	S2 Cl2	B	P	
DISULPHUR DECAFLUORIDE	F10 S2	B	P	
2,6-DITERTIARY-BUTYL-PARA-CRESOL	C15 H24 O		P	
6,6-DI-TERT-BUTYL-4,4-THIODO-M-CRESOL	C22 H30 O2 S		P	
DIURON (ISO)	C9 H10 Cl2 N2 O		P	
DIVANADIUM PENTAOXIDE (AS V)	O5 V2		P	
DIVINYLBENZENE	C10 H10	A		
DUSTS	n/a		P	
EGDN	as Ethylene dinitrate	A	P	
EMERY	Al2 O3		P	
ENDOSULFAN (ISO)	C9 H6 Cl6 O3 S		P	
ENDRIN (ISO)	C12 H8 Cl6 O		P	
EPICHLOROHYDRIN	as 1-Chloro-2,3-epoxypropane	A		
1,2-EPOXYPROPANE (PROPYLENE OXIDE)	C3 H6 O	AX		
2,3-EPOXYPROPYL ISOPROPYL ETHER	C6 H12 O2	A		
ETHANE-1,2-DIOL	C2 H6 O2	A	P	
ETHANETHIOL	C2 H6 S	AX		
ETHANOL	C2 H6 O	A		
ETHANOLAMINE	as 2-Aminoethanol	A		
ETHER	as Diethyl ether	AX		
2-ETHOXYETHANOL	C4 H10 O2	A		
2-ETHOXYETHYL ACETATE	C6 H12 O3	A		
ETHYL ACETATE	C4 H8 O2	A		
ETHYL ACRYLATE	C5 H8 O2	A		
ETHYL ALCOHOL	as Ethanol	A		

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
ETHYLAMINE	C2 H7 N	K		
ETHYL AMYL KETONE	as 5-Methylheptan-3-one	A		
ETHYLBENZENE	C8 H10	A		
ETHYL BROMIDE	as Bromoethane	AX		
ETHYL BUTYL KETONE	as Heptan-3-one	A		
ETHYL CHLORIDE	as Chloroethane	AX		
ETHYL CHLOROFORMATE	C3 H5 Cl O2	A		
ETHYL CYANOACRYLATE		A	P	
ETHYLENE CHLOROHYDRIN	as 2-Chloroethanol	A		
ETHYLENEDIAMINE	C2 H8 N2	A		
ETHYLENE DIBROMIDE	C2 H4 Br2	A		
ETHYLENE DICHLORIDE	as 1,2-Dichloroethane	A		
ETHYLENE DINITRATE	C2 H4 N2 O6	A		
ETHYLENE GLYCOL	as Ethane-1,2-diol	A	P	
ETHYLENE GLYCOL DINITRATE	as Ethylene dinitrate	A		
ETHYLENE GLYCOL MONOBUTYL ETHER	as 2-Butoxyethanol	A	P	
ETHYLENE GLYCOL MONOETHYL ETHER ACETATE	as 2-Ethoxyethyl acetate	A		
ETHYLENE GLYCOL MONOETHYL ETHER	as 2-Ethoxyethanol	A		
ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE	as 2-Methoxyethyl acetate	A		
ETHYLENE GLYCOL MONOMETHYL ETHER	as 2-Methoxyethanol	A		
ETHYLENE OXIDE	C2 H4 O	AX		
ETHYL ETHER	as Diethyl ether	AX		
ETHYL FORMATE	C3 H6 O2	AX		
2-ETHYLHEXYL CHLOROFORMATE	C11 C7 O2 H12	A	P	
ETHYLIDENE DICHLORIDE	as 1,1-Dichloroethane	AX		
ETHYL MERCAPTAN	as Ethanethiol	AX		
4-ETHYLMORPHOLINE	C6 H13 N O	A	P	
ETHYL SILICATE	as Tetraethyl orthosilicate	A		
EXTRACTS (PETROLEUM)				
- LIGHT PARAFFINIC DISTILLATE SOLVENT	n/a	A	P	
-LIGHT VACUUM GAS OIL SOLVENT	n/a	A	P	
- HEAVY NAPHTHENIC DISTILLATE SOLVENT	n/a	A	P	
-HEAVY PARAFFINIC DISTILLATE SOLVENT	n/a	A	P	
-LIGHT NAPHTHENIC DISTILLATE SOLVENT	n/a	A	P	
FENCHLORPHOS (ISO)	C8 H8 Cl3 O3 P S	A	P	
FERBAM (ISO)	C9 H18 N3 S6 Fe		P	
FERROCENE	C10 H10 Fe	A	P	
FERROUS FOUNDRY PARTICULATE	n/a		P	
FLOUR DUST	n/a		P	
FLUORIDE (AS F)	F		P	
FLUORINE	F2	B		
FORMALDEHYDE	C H2 O	AX/B/E		
FORMAMIDE	C H3 N O	A	P	
FORMIC ACID	C H2 O2	E	P	
FUEL OILS - VARIOUS	n/a	A	P	
2-FURALDEHYDE	C5 H4 O2	A		
FURFURAL	C5 H4 O2	A		
FURFURYL ALCOHOL	C5 H6 O2	A		
GLUTARALDEHYDE	C5 H8 O2	A	P	
GLYCEROL, MIST	C3 H8 O3	A	P	
GLYCEROL TRINITRATE	C3 H5 O9 N3	A	P	
GLYCOL ETHERS	as 2-Butoxyethanol	A		
GLYCOL MONOETHYL ETHER	as 2-Ethoxyethanol	A		
GRAIN DUST	n/a		P	
GRAPHITE	C		P	
GUTHION	as Azinphos-methyl (ISO)	A	P	
GYPNUM	Ca S O6 H4		P	
HALOGENO-PLATINUM COMPOUNDS	n/a		P	
y-HCH (ISO)	as y-BHC (ISO)	A	P	
HAFNIUM	Hf		P	
HEPTAN-2-ONE	C7 H14 O	A		
HEPTAN-3-ONE	C7 H14 O	A		
HEXACHLOROENZENE	C6 Cl6	A		
y-HEXACHLOROCYCLOHEXANE	as y-BHC	A	P	
HEXACHLOROETHANE	C2 Cl6	A	P	
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	C3 H6 N6 O6		P	
HEXAMETHYLPHOSPHORIC TRIAMIDE	[(CH3)2N]3PO	A	P	



Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
N-HEXANE	C6 H14	A		
1,6-HEXANOLACTAM	N H11 C6 O	A	P	
HEXAN-2-ONE	C6 H12 O	A		
HEXONE	as 4-Methylpentan-2-one	A		
HEXYLENE GLYCOL	as 2-Methylpentan-2,4-diol	A		
HYDRAZINE	H4 N2	K	P	
HYDRAZINE SALTS	Various	K	P	
HYDRAZOBENZENE	C12 H12 N2	AK	P	
HYDRAZOIC ACID (AS VAPOUR)	H N3	K	P	
HYDROCARBON SOLVENTS	Various	A	P	
HYDROCARBON C26-55, AROMATIC RICH	n/a	A	P	
HYDROGEN BROMIDE	H Br	B	P	
HYDROGEN CHLORIDE	H Cl	B	P	
HYDROGEN CYANIDE	HCN	B	P	
HYDROGEN FLUORIDE (AS F)	HF	B	P	
HYDROGEN PEROXIDE	H2O2	B	P	
HYDROGEN SULPHIDE	H2 S	B		
HYDROQUINONE	C6 H6 O2	A	P	
4-HYDROXY-4-METHYL-PENTAN-2-ONE	C6 H12 O2	A		
2-HYDROXYPROPYL ACRYLATE	C6 H10 O3	A		
IGE	as 2,3-Epoxypropyl isopropyl ether	A		
2,2'-IMINODIETHANOL	C4 H11 N O2	A	P	
2,2'-IMINODI(ETHYLAMINE)	C4 H13 N3	A	P	
INDENE	C9 H8	A		
INDIUM AND COMPOUNDS (AS IN)	In		P	
IODINE	I2	B	P	
IODOFORM	C H I3	A	P	
IODOMETHANE	C H3 I	AX		
IRON OXIDE, FUME (AS FE)	Fe2 O3		P	
IRON PENTACARBONYL	as Pentacarbonyliron	A	P	
IRON SALTS (AS FE)	Various		P	
ISOAMYL ACETATE	as Isopentyl acetate	A		
ISOAMYL ALCOHOL	as 3-Methylbutan-1-ol	A		
ISOAMYL METHYL KETONE	as 5-Methylhexan-2-one	A		
ISOBUTYL ACETATE	C6 H12 O2	A		
ISOBUTYL ALCOHOL	as 2-Methylpropan-1-ol	A		
ISOBUTYL METHYL KETONE	as 4-Methylpentan-2-one	A		
ISOCTYL ALCOHOL (MIXED ISOMERS)	C8 H18 O	A		
ISOPENTYL ACETATE	C7 H14 O2	A		
ISOPHORONE	as 3,5,5-Trimethylcyclohex-2-enone	A		
ISOPROPYL ACETATE	C5 H10 O2	A		
ISOPROPYL ALCOHOL	as Propan-2-ol	A		
ISOPROPYL BENZENE	as Cumene	A		
ISOPROPYL CHLOROFORMATE	C4 H7 O2 Cl	A	P	
ISOPROPYL ETHER	as Diisopropyl ether	A		
ISOPROPYL GLYCIDYL ETHER	as 2,3-Epoxypropyl isopropyl ether	A		
KAOLIN	Al4 Si4 O18 H8		P	
LPG (LIQUEFIED PETROLEUM GAS)	Mix : C3 H6;C3 H8;C4 H8;C4 H10	AX		
LEAD HYDROGEN ARSENATE	Pb H4 As2 O8		P	
LEAD AND COMPOUNDS (EXCEPT LEAD ALKYLs)	Pb		P	
LEAD ALKYLs	Various	A	P	
LIMESTONE	n/a		P	
LINDANE	C12 H6	A	P	
LITHIUM HYDRIDE	LiH		P	
LITHIUM HYDROXIDE	LiOH		P	
MDA	as 4,4'-Methylenedianiline	A	P	
MEK	as Butan-2-one	A		
MIKB	as 4-Methylpentan-2-one	A		
MAGNESITE	MgCO3		P	
MAGNESIUM OXIDE, FUME AND DUST (AS MG)	MgO		P	
MALATHION (ISO)	C10 H19 O6 P S2	A	P	
MALEIC ANHYDRIDE	C4 H2 O3	A	P	
MANGANESE, FUME (AS MN)	Mn		P	
MANGANESE AND COMPOUNDS (AS MN)	Mn		P	
MANGANESE CYCLOPENTADIENYL TRICARBONYL a	s tricarbonyl(eta-cyclopentadienyl) manga	A	P	
MANGANESE TETROXIDE	as Trimanganese tetraoxide		P	
MAN-MADE MINERAL FIBRE	n/a		P	

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
MARBLE	CaCO3		P	
MbOCA	as 2,2'-Dichloro-4,4'-methylenedianili	A	P	
MEQUINOL (INN) (P-METHOXYPHENOL)	C7 H8 O2		P	
MERCAPTOACETIC ACID	C2 H4 O2 S	A	P	
MERCURY ALKYL (AS HG)	Hg	Hg	P	
MERCURY & ITS INORGANIC DIVALENT COMPOUNDS	Hg	Hg	P	
MESITYLENE	as Trimethylbenzenes	A		
MESITYL OXIDE	as 4-Methylpent-3-en-2-one	A		
METAL WORKING FLUIDS	n/a	A	P	
METHACRYLIC ACID	C4 H6 O2	A	P	
METHACRYLONITRILE	C4 H5 N	AB	P	
METHANOL	C H4 O	AX		
METHOMYL (ISO)	C5 H10 N2 O S		P	
METHOXYCHLOR (ISO)	C16 H15 CL3 O2		P	
2-METHOXYETHANOL	C3 H8 O2	A		
2-METHOXYETHYL ACETATE	C5 H10 O3	A		
p-METHOXYPHENOL	as Mequinol (INN)		P	
1-METHOXYPROPAN-2-OL	C4 H10 O2	A		
METHYL ACETATE	C3 H6 O2	AX		
METHYL ACRYLAMIDOMETHOXYACETATE (CONTAINING >=0.1% ACRYLAMIDE)	C3 H5 O N	AK	P	
METHYL ACRYLAMIDOGLYCOLATE (CONTAINING >=0.1% ACRYLAMIDE)	C3 H5 O N	AK	P	
METHYL ACRYLATE	C4 H6 O2	A		
METHYL ALCOHOL	as Methanol	AX		
METHYLAMINE	C H5 N	K		
METHYL-n-AMYL-KETONE	as Heptan-2-one	A		
N-METHYLANILINE	C7 H9 N	A		
2-METHYLAZIRIDINE	C3 H7 N	K		
METHYL BROMIDE	as Bromomethane	AX		
3-METHYLBUTAN-1-OL	C5 H12 O	A		
METHYLBUTYL ACETATE	C7 H14 O2	A		
METHYL-t-BUTYL ETHER	C5 H12 O	AX		
METHYL-n-BUTYL KETONE	as Hexan-2-one	A		
METHYL CHLOROFORM	as 1,1,1-Trichloroethane	A		
METHYL-2-CYANOACRYLATE	C5 H5 N O2	A	P	
METHYLCYCLOHEXANE	C7 H14	A		
METHYLCYCLOHEXANOL	C7 H14 O	A		
2-METHYLCYCLOHEXANONE	C7 H12 O	A		
METHYLCYCLOPENTADIENYL MANGANESE, TRICARBONYL (as Mn)	as Tricarbonyl			
2-METHYL-4,6-DINITROPHENOL	C7 H6 N2 O5		P	
4,4'-METHYLENEBIS-(2-CHLOROANILINE)	C13 H12 Cl2 N2	A	P	
METHYLENE CHLORIDE	as Dichloromethane	AX/SX		
4,4'-METHYLENEDIANILINE (MDA)	C13 H14 N2	A	P	
METHYL ETHYL KETONE	as Butan-2-one	A		
METHYL ETHYL KETONE PEROXIDES (MEKP)	C8 H16 O4	A	P	
METHYL FORMATE	C2 H4 O2	AX		
5-METHYLHEPTAN-3-ONE	C8 H16 O	A		
5-METHYLHEXAN-2-ONE	C7 H14 O	A		
METHYL IODIDE	as Iodomethane	AX		
METHYL ISOAMYL KETONE	as 5-Methylhexan-2-one	A		
METHYL ISOBUTYL CARBINOL	as 4-Methylpentan-2-ol	A		
METHYL ISOBUTYL KETONE	as 4-Methylpentan-2-one	A		
METHYL METHACRYLATE	C5 H8 O2	A		
METHYL PARATHION	as Parathion-methyl (ISO)	A	P	
2-METHYLPENTANE-2,4-DIOL	C6 H14 O2	A		
4-METHYLPENTAN-2-OL	C6 H14 O	A		
4-METHYLPENTAN-2-ONE	C6 H12 O	A		
4-METHYLPENT-3-EN-2-ONE	C6 H10 O	A		
4-METHYL-M-PHENYLENEDIAMINE	1,2 H4 N2 4 C7 H6	A	P	
2-METHYLPROPAN-1-OL	C4 H10 O	A		
2-METHYLPROPAN-2-OL	C4 H10 O	A		
METHYL PROPYL KETONE	as Pentan-2-one	A		
1-METHYL-2-PYRROLIDONE	C5 H9 N O	A	P	
METHYL SILICATE	as Tetramethyl orthosilicate	A		
a-METHYLSTYRENE	C9 H10	A		

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
METHYLSTYRENES, ALL ISOMERS EXCEPT $\alpha$ -METHYLSTYRENE	C9 H10	A		
N-METHYL-N,2,4,6-TETRANITROANILINE	C7 H5 N5 O8		P	
METHYL-tert-BUTYL ETHER	C5 H12 O	AX		
MEVINPHOS (ISO)	C7 H13 O6 P	A	P	
MICA (RESPIRABLE DUST)	n/a		P	
MINERAL WOOL	as man made fibre		P	
MOLYBDENUM COMPOUNDS (AS MO)	Mo		P	
MONOCHLOROACETIC ACID	C2 H3 Cl O2	A	P	
MORPHOLINE	C4 H9 N O	A		
NALED (ISO)	C4 H7 Br2 Cl2 O4 P	A	P	
NAPHTHALENE	C10 H8	A	P	
2-NAPHTHYLAMINE	H9 N C10	A	P	
2-NAPHTHYLAMINE SALTS	Various	A	P	
NICKEL AND INORGANIC COMPOUNDS	Ni		P	
NICKEL DIOXIDE			P	
NICKEL MONOXIDE	Ni O		P	
NICKEL ORGANIC COMPOUNDS (AS NI)	Ni	A	P	
NICKEL SUBSULPHIDE	Ni3 S2		P	
NICKEL SULPHIDE	Ni S		P	
NICOTINE	C10 H14 N2	A	P	
NITRAPYRIN	as 2-Chloro-6-(trichloromethyl) pyridi	A	P	
NITRIC ACID	H N O3	E	P	
5-NITROACENAPHTHENE	C12 H9 N O2	A	P	
4-NITROANILINE	C6 H6 N2 O2	A	P	
2-NITROANISOLE	N O3 C7 H7	A	P	
NITROBENZENE	C6 H5 N O2	A	P	
4-NITROBIPHENYL	4-N O2 C12 H9		P	
NITROETHANE	C2 H5 N O2	A	P	
NITROFEN (ISO)		AB	P	
NITROGEN DIOXIDE	N O2	BE		
NITROGLYCERINE	as Glycerol trinitrate	A	P	
NITROMETHANE	C H3 N O2	A	P	
2-NITRONAPHTHALENE	N O2 C10 H7	A	P	
1-NITROPROPANE	C3 H7 N O2	A	P	
2-NITROPROPANE	C3 H7 N O2	A	P	
n-NITROSODIMETHYLAMINE	C2 H6 N2 O	A	P	
n-NITROSODIPROPYLAMINE	C6 H14 N2 O	A	P	
2,2'-(NITROSOIMINO) BISETHANOL		A	P	
NITROTOLUENE, ALL ISOMERS	C7 H7 N O2	A	P	
NONYPHENOLS		A	P	
OCTACHLORONAPHTHALENE	C10 Cl8	A	P	
N-OCTANE	C8 H18	A		
OIL MIST, MINERAL			P	
OIL MIST, WATER			P	
ORTHOPHOSPHORIC ACID	H3 O4 P		P	
OSMIUM TETRAOXIDE (AS OS)	O4 Os	B	P	
OXALIC ACID	C2 H2 O4		P	
2,2'-OXYDIETHANOL	C4 H10 O3	A		
OZONE	O3	A		
PGDN	as Propylene dinitrate	A	P	
PVC (POLYVINYL CHLORIDE) (RESP. DUST)	(C2 H3 Cl)N		P	
PARACETAMOL	C8 H9 N O2		P	
PARAFFIN WAX, FUME	CnH2n+2	A	P	
PARAQUAT DICHLORIDE (ISO)	C12 H14 N2 2Cl	A	P	
PARATHION (ISO)	C10 H14 N O5 P S	A	P	
PARATHION-METHYL (ISO)	C8 H10 N O5 P S	A	P	
PENTACARBONYLIRON (AS FE)	C5 Fe O5	A	P	
PENTACHLOROPHENOL	C6 H Cl5 O	A	P	
PENTAERYTHRITOL (RESP. DUST)	C5 H12 O4		P	
PENTANE, ALL ISOMERS	C5 H14	AX		
PENTAN-2-ONE	C5 H10 O	A		
PENTAN-3-ONE	C5 H10 O	A		
PENTYL ACETATE	C7 H14 O2	A		
PERCHLOROETHYLENE	as Tetrachloroethylene	A		
PERCHLORYL FLUORIDE	Cl F O3	B		
PHENACYL CHLORIDE	as 2-Chloroacetophenone	A	P	

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
PHENOL	C6 H6 O	A	P	
p-PHENYLENEDIAMINE	C6 H8 N2		P	
PHENYL-2,3-EPOXYPROPYL ETHER	C9 H10 O2	A		
PHENYLETHYLENE	as Styrene	A		
PHENYL HYDRAZINE	C6 H8 N2	A	P	
2-PHENYLPROPENE	C9 H10	A		
PHORATE (ISO)	C7 H17 O2 P S3	A	P	
PHOSDRIN	as Mevinphos (ISO)	A	P	
PHOSGENE	C CL2 O	B	P	
PHOSPHINE	H3 P	B		
PHOSPHORIC ACID	as Orthophosphoric acid		P	
PHOSPHORUS, YELLOW	P4		P	
PHOSPHORUS OXYCHLORIDE	as Phosphoryl trichloride	B	P	
PHOSPHORUS PENTACHLORIDE	Cl5 P	B	P	
PHOSPHORUS PENTASULPHIDE	as Diphosphorus pentasulphide	B	P	
PHOSPHORUS PENTOXIDE	as Diphosphorus pentoxide		P	
PHOSPHORUS TRICHLORIDE	Cl3 P	B	P	
PHOSPHORYL TRICHLORIDE	Cl3 O P	B	P	
PHTHALIC ANHYDRIDE	C8 H4 O3	A	P	
PICLORAM (ISO)	C6 H3 Cl3 N2 O2	AB	P	
PICRIC ACID	C6 H3 N3 O7		P	
PIPERAZINE DIHYDROCHLORIDE	C4 H10 N2 2Cl H		P	
PIPERIDINE	C5 H11 N	A		
PLASTER OF PARIS (RESP. DUST)	Ca2S2H2O9		P	
PLATINUM METAL	Pt		P	
PLATINUM COMPOUNDS, SOLUBLE (AS PT)	Pt		P	
POLYVINYL CHLORIDE (PVC) (RESP. DUST)	(C2 H3 Cl)N		P	
PORTLAND CEMENT (RESP. DUST)	n/a		P	
POTASSIUM BROMATE	K Br O3		P	
POTASSIUM CHROMATE	K2 Cr O4		P	
POTASSIUM HYDROXIDE	KOH		P	
PROPANE-1,2-DIOL (TOTAL)	C3 H8 O2	A	P	
1,3-PROPANESULTONE		A	P	
n-PROPANOL	as Propan-1-ol	A		
PROPAN-1-OL	C3 H8 O	A		
PROPAN-2-OL	C3 H8 O	A		
3-PROPANOLIDE (PROPIOLACTONE)	C3 H4 O2	A	P	
PROPARGYL ALCOHOL	as Prop-2-yn-1-ol	A		
PROPIONIC ACID	C3 H6 O2	A	P	
PROPOXUR (ISO)	C11 H15 N O3		P	
PROPRANOLOL	C16 H21 N O2	A	P	
N-PROPYL ACETATE	C5 H10 O2	A		
PROPYLENE DINITRATE	C3 H6 N2 O6	A	P	
PROPYLENE GLYCOL	as Propane-1,2-diol	A	P	
PROPYLENE GLYCOL DINITRATE	as Propylene dinitrate	A	P	
PROPYLENE GLYCOL MONOMETHYL ETHER	as 1-Methoxypropan-2-ol	A		
PROPYLENE OXIDE	C3 H6 O	AX		
PROP-2-YN-1-OL	C3 H4 O	A		
PULVERISED FUEL ASH (RESP. DUST)	n/a		P	
PYRETHRINS (ISO)	C21H28O3		P	
PYRIDINE	C5 H5 N	A	P	
2-PYRIDYLAMINE	C5 H6 N2	A	P	
PYROCATECHOL	C6 H6 O2	A	P	
QUARTZ	SiO2		P	
QUINONE	as p-Benzoquinone	A	P	
RDX	as Hexahydro-1,3,5-trinitro-1,3,5-triazi		P	
RESIDUAL OILS (PETROLEUM)	n/a	A	P	
RESIDUES (PETROLEUM) - VARIOUS	n/a	A	P	
RESIDUES, STEAM CRACKED, THERMALLY TREATED	n/a	A	P	
RESORCINOL	C6 H6 O2	A	P	
RHODIUM (AS RH) METAL FUME AND DUST	Rh		P	
RONNEL	as Fenchlorphos (ISO)	A	P	
ROSIN CORE SOLDER PYROLYSIS PRODUCTS		A	P	
ROTENONE (ISO)	C23 H22 O6		P	
ROUGE (RESP. DUST)	Fe2 O3		P	
RUBBER FUME	n/a		P	
RUBBER PROCESS DUST	n/a		P	

Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
SELENIUM AND COMPOUNDS, EXCEPT HYDROGEN SELENIDE (AS SE)	Se		P	
SILICA, AMORPHOUS (RESP. DUST)	O2 Si		P	
SILICA, CRYSTALLINE, RESPIRABLE DUST	Si O2		P	
SILICA, FUSED (RESP. DUST)	O2 Si		P	
SILICON (RESP. DUST)	Si		P	
SILICON CARBIDE (not whiskers) (RESP. DUST)	C Si		P	
SILVER, METALLIC	Ag		P	
SILVER, SOLUBLE COMPOUNDS (AS Ag)	Ag		P	
SODIUM AZIDE (as NaN3)	N3 Na		P	
SODIUM 2-(2,4-DICHLOROPHENOXY)ETHYL SULPHATE	C8 H7 Cl2 O5 S Na		P	
SODIUM FLUOROACETATE	C2 H2 F O2 Na		P	
SODIUM HYDROGENSULPHITE	H O3 S Na		P	
SODIUM HYDROXIDE	Na O H		P	
SODIUM METABISULPHITE	as Disodium disulphite		P	
SOFT WOOD DUST	n/a		P	
STARCH (RESP. DUST)	n/a		P	
STRONTIUM CHROMATE	Sr Cr O4		P	
STRYCHNINE	C21 H22 N2 O2		P	
STYRENE	C8 H8	A		
STYRENE OXIDE	C8 H8 O	A		
SUBTILISINS			P	
SUCROSE	C12 H22 O11		P	
SULFOTEP (ISO)	C8 H20 O5 P2 S2	AB	P	
SULPHUR DIOXIDE	O2 S	E		
SULPHURIC ACID	H2 O4 S	E	P	
SULPHUR MONOCHLORIDE	as Disulphur dichloride	B	P	
SULPHUR PENTAFLUORIDE	as Disulphur decafluoride	B	P	
2,4,5-T (ISO)	C8 H5 Cl3 O3		P	
TEDP	as Sulfotep (ISO)	AB	P	
TEPP (ISO)	C8 H20 O7 P2	A	P	
TNT	as 2,4,6-Trinitrotoluene		P	
TALC (RESP. DUST)	H4-O24-Si8-Mg6		P	
TANTALUM	Ta		P	
TAR - VARIOUS		A	P	
TELLURIUM & COMPOUNDS EXCEPT HYDROGEN TELLURIDE (AS Te)	Te		P	
TERPHENYLS (ALL ISOMERS)	C18 H14		P	
1,1,2,2-TETRABROMOETHANE	C2 H2 Br4	A	P	
TETRABROMOMETHANE	as Carbon Tetrabromide	A	P	
1,1,1,2-TETRACHLORO-2,2-DIFLUOROETHANE	C2 Cl4 F2	A		
1,1,2,2-TETRACHLORO-1,2-DIFLUOROETHANE	C2 Cl4 F2	A		
TETRACHLOROETHYLENE	C2 Cl4	A		
TETRACHLOROMETHANE	as Carbon Tetrachloride	A		
TETRACHLORONAPHTHALENES, ALL ISOMERS	C10 H4 Cl4	A	P	
O,O,O',O'-TETRAETHYL DITHIO-PYROPHOSPHATE	as Sulfotep (ISO)	AB	P	
O,O,O',O'-TETRAETHYL PYROPHOSPHATE	as TEPP (ISO)	A	P	
TETRAETHYL ORTHOSILICATE	C8 H20 O4 Si	A		
TETRAHYDROFURAN	C4 H8 O	A		
TETRAMETHYL ORTHOSILICATE	C4 H12 O4 Si	A		
TETRAMETHYL SUCCINONITRILE	C8 H12 N2		P	
TETRASODIUM PYROPHOSPHATE	O7 P2 4Na		P	
TETRYL	as N-Methyl-N,2,4,6-tetranitroanilin		P	
THALLIUM, SOLUBLE COMPOUNDS (AS TL)	Tl		P	
4,4'-THIOBIS (6-tert-BUTYL-m-CRESOL)	C22 H30 O2 S		P	
THIOGLYCOLLIC ACID	as Mercaptoacetic acid	A	P	
THIONYL CHLORIDE	Cl2 O S	B	P	
THIRAM (ISO)	C6 H12 N2 S4	A	P	
TIN COMPOUNDS, INORGANIC, EXCEPT SNH4 (AS SN)	Sn		P	
TITANIUM DIOXIDE (RESP. DUST)	Ti O2		P	
TOLUENE	C7 H8	A		
p-TOLUENESULPHONYL CHLORIDE	C7 H7 S O2 Cl	AB	P	
O-TOLUIDINE	C7 H9 N	A	P	
o-TOLUIDINE BASED AZODYES	Various	A	P	
4-o-TOLYLAZO-o-TOLUIDINE		A	P	
1,4,7-TRI-(AZA)-HEPTANE	C4 H13 N3	A		
TRIBROMOMETHANE	as Bromoform	A		



Chemical name	Chemical formula	Gas filter	Particle filter	Filter colour
TRIBUTYL PHOSPHATE, ALL ISOMERS	C12 H27 O4 P	A	P	
TRICARBONYL(ETA-CYCLOPENTADIENYL) MANGANESE (AS MN)	C8 H5 Mn O3	A	P	
TRICARBONYL(METHYLCYCLOPENTADIENYL) MANGANESE AS MN	C9 H7 Mn O3	A	P	
TRICHLOROACETIC ACID	C2 H Cl3 O2	AE	P	
1,2,4-TRICHLOROBENZENE	C6 H3 Cl3	A		
1,1,1-TRICHLOROBIS(CHLOROPHENYL)ETHANE	C14 H9 Cl5		P	
1,1,1-TRICHLOROETHANE	C2 H3 Cl3	A		
TRICHLOROETHYLENE	C2 H Cl3	A		
a,a,a-TRICHLOROTOLUENE	Cl3 C7 H5	A	P	
TRICHLOROMETHANE	as Chloroform	AX		
TRICHLORONITROMETHANE	C Cl3 N O2	A		
2,4,5-TRICHLOROPHENOXYACETIC ACID	C8 H5 Cl3 O3		P	
1,2,3-TRICHLOROPROPANE	C3 H5 Cl3	A		
TRI-o-CRESYL PHOSPHATE	as Tri-o-tolylphosphate		P	
TRICYCLOHEXYLTIN HYDROXIDE	as Cyhexatin (ISO)	A	P	
TRIDYMIT, RESPIRABLE DUST	Si O2		P	
TRIETHYLAMINE	C6 H15 N	A	K	
TRIGLYCIDYL ISOCYANURATE (TGIC)	C12 H15 N3 O6		P	
TRIMANGANESE TETRAOXIDE	Mn3 O4		P	
TRIMELLITIC ANHYDRIDE	C9 H4 O5	A	P	
TRIMETHYLAMINE	C3 H9 N	K		
TRIMETHYLBENZENES, ALL ISOMERS	C9 H12	A		
3,5,5-TRIMETHYLCYCLOHEX-2-ENONE	C9 H14 O	A		
TRIMETHYL PHOSPHITE	C3 H9 O3 P	A	P	
2,4,6-TRINITROPHENOL	C6 H3 N3 O7		P	
2,4,6-TRINITROTOLUENE	C7 H5 N3 O6		P	
TRIPHENYL PHOSPHATE	C18 H15 O4 P	A	P	
TRIPOLI, RESPIRABLE DUST	Si O2		P	
TRI-O-TOLYL PHOSPHATE	C21 H21 O4 P	A	P	
TUNGSTEN & COMPOUNDS (AS W) (SOLUBLE)	W		P	
TURPENTINE	C10 H16 (approx)	A		
URANIUM COMPOUNDS, NATURAL, SOLUBLE (AS U)	U		P	
URETHANE (INN)	H2-nn H6 C3 O2	A	P	
VANADIUM PENTOXIDE	as Divanadium pentaoxide		P	
VINYL ACETATE	C4 H6 O2	A		
VINYL BENZENE	as Styrene	A		
VINYL CHLORIDE (CHLOROETHYLENE)	C2 H3 Cl	AX		
VINYLDENE CHLORIDE	C2 H2 Cl2	AX	P	
VINYL TOLUENES, ALL ISOMERS	as Methylstyrenes	A		
WARFARIN (ISO)	C19 H16 O4		P	
WELDING FUME	n/a		P	
WHITE SPIRIT	n/a	A		
WOOD DUST (HARD WOOD)	n/a		P	
WOOD DUST (SOFT WOOD)	n/a		P	
WOOL PROCESS DUST	n/a		P	
XYLENE (ALL ISOMERS)	C8 H10	A		
XYLIDINE, ALL ISOMERS	C8 H11 N	AK		
YTTRIUM	Y		P	
ZINC CHLORIDE, FUME	Cl2 Zn		P	
ZINC CHROMATES (INC. ZINC POTASSIUM CHROMATE)	Zn Cr O4 , Zn Cr2 O4 , Zn Cr2 O7		P	
ZINC DISTEARATE (RESP. DUST)	C36 H70 O4 Zn		P	
ZINC OXIDE FUME	ZnO		P	
ZIRCONIUM COMPOUNDS (AS Zr)	Zr		P	



Please keep in mind, that this table is only a recommendation and only helps to get a first overview. For a proper risk assessment, please contact your national safety association. It is important to know the concentration of the different gases in the air to be able to give a final recommendation.

optrel AG is not taking over any responsibility in case of misuse of the table above.



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