

DATA ENTRY SHEET

SL-ADV
Version 3.1; 02/04

CALCULATE RISK-BASED SOIL CONCENTRATION (enter "X" in "YES" box)

YES
OR

Reset to
Defaults

CALCULATE INCREMENTAL RISKS FROM ACTUAL SOIL CONCENTRATION (enter "X" in "YES" box and initial soil conc. below)

YES

ENTER Initial
Chemical
soil
conc.,
 C_0
($\mu\text{g}/\text{kg}$)

67641

Chemical

Acetone

ENTER Depth
below grade
to bottom
of enclosed
space floor,
 L_F
(cm)

ENTER Depth below
grade to top
of contamination,
 L_t
(cm)

ENTER Depth below
grade to bottom
of contamination,
(enter value of 0
if value is unknown)
 L_b
(cm)

ENTER Thickness
of soil
stratum A,
 h_A
(cm)

ENTER Thickness
of soil
stratum B,
 h_B
(cm)

ENTER Thickness
of soil
stratum C,
 h_C
(cm)

ENTER Soil
stratum A
SCS
soil type
(used to estimate
soil vapor
permeability)

ENTER User-defined
stratum A
soil vapor
permeability,
 k_v
(cm^2)

10

1

31

1

0

0

1.00E-08

ENTER Stratum A
SCS
soil type
Lookup Soil
Parameters

ENTER Stratum A
soil dry
bulk density,
 ρ_b^A
(g/cm^3)

ENTER Stratum A
soil total
porosity,
 n^A
(unitless)

ENTER Stratum B
SCS
soil type
Lookup Soil
Parameters

ENTER Stratum B
soil dry
bulk density,
 ρ_b^B
(g/cm^3)

ENTER Stratum B
soil total
porosity,
 n^B
(unitless)

ENTER Enclosed
space
floor
thickness,
 L_{crack}
(cm)

ENTER Soil-bldg.
pressure
differential,
 ΔP
($\text{g}/\text{cm} \cdot \text{s}^2$)

ENTER Enclosed
space
floor
length,
 L_b
(cm)

ENTER Enclosed
space
width,
 W_b
(cm)

ENTER Floor-wall
seam crack
width,
 H_b
(cm)

ENTER Indoor
air exchange
rate,
ER
(1/h)

ENTER Averaging
time for
carcinogens,
 AT_c
(yrs)

ENTER Averaging
time for
noncarcinogens,
 AT_{NC}
(yrs)

ENTER Exposure
duration,
 ED
(yrs)

ENTER Exposure
frequency,
 EF
(days/yr)

ENTER Target
risk for
carcinogens,
 TR
(unitless)

ENTER Target hazard
quotient for
noncarcinogens,
 THQ
(unitless)

10

40

1000

1000

244

0.1

70

30

30

350

1.0E-05

1

ENTER Average vapor
flow rate into bldg.
OR
Leave blank to calculate
 Q_{sol}
(L/m)

ENDUsed to calculate risk-based
soil concentration.

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D _a (cm ² /s)	Diffusivity in water, D _w (cm ² /s)	Henry's law constant at reference temperature, H (atm-m ³ /mol)	Henry's law constant reference temperature, T _R (°C)	Enthalpy of vaporization at the normal boiling point, ΔH _{v,b} (cal/mol)	Normal boiling point, T _B (°K)	Critical temperature, T _c (°K)	Organic carbon partition coefficient, K _{oc} (cm ³ /g)	Pure component water solubility, S (mg/L)	Unit risk factor, URF (μg/m ³) ⁻¹	Reference conc., RfC (mg/m ³)	Physical state at soil temperature, (S,L,G)
1.24E-01	1.14E-05	3.87E-05	25	6.955	329.20	508.10	5.75E-01	1.00E+06	0.0E+00	3.1E+01	L

END

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Initial soil concentration used, C_R ($\mu\text{g}/\text{kg}$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9.46E+08	1	0.394	ERROR	ERROR	#N/A	#N/A	#N/A	1.00E-08	4,000	1.00E+00	1.69E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} ($\text{g}/\text{cm}\cdot\text{s}$)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	Convection path length, L_p (cm)
1.00E+06	4.00E-04	1	7,559	1.97E-05	8.47E-04	1.75E-04	2.89E-02	0.00E+00	0.00E+00	2.89E-02	1	1

Soil-water partition coefficient, K_d (cm^3/g)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^l)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)	Finite source β term (unitless)	Finite source ψ term (unitless)	Time for source depletion, τ_D (sec)	Exposure duration > time for source depletion, (YES/NO)
1.15E-03	2.96E+01	0.10	1.91E+01	2.89E-02	4.00E+02	1.50E+07	NA	NA	1.51E+03	5.19E-04	8.83E+07	YES

Finite source indoor attenuation coefficient, $<\alpha>$	Mass conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)	Finite source conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)	Final finite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)	Unit risk factor, URF	Reference conc., RfC (mg/m^3)
NA	3.09E-03	NA	3.09E-03	NA	3.1E+01

END

RESULTS SHEET

RISK-BASED SOIL CONCENTRATION CALCULATIONS:

Indoor exposure soil conc., carcinogen ($\mu\text{g/kg}$)	Indoor exposure soil conc., noncarcinogen ($\mu\text{g/kg}$)	Risk-based indoor exposure soil conc., ($\mu\text{g/kg}$)	Soil saturation conc., C_{sat} ($\mu\text{g/kg}$)	Final indoor exposure soil conc., ($\mu\text{g/kg}$)
NA	1.05E+07	1.05E+07	2.86E+07	1.05E+07

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
NA	NA

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: The values of Csource and Cbuilding on the INTERCALCS worksheet are based on unity and do not represent actual values.

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL
DOWN
TO "END"

END

VLOOKUP TABLES

SCS Soil Type	Soil Properties Lookup Table						Bulk Density			
	K _r (cm/h)	α_1 (1/cm)	N (unitless)	M (unitless)	n (cm ³ /cm ³)	θ_r (cm ³ /cm ³)	Mean Grain Diameter (cm)	(g/cm ³)	θ_w (cm ³ /cm ³)	SCS Soil Name
C	0.61	0.01496	1.253	0.2019	0.459	0.098	0.0092	1.43	0.215	Clay
CL	0.34	0.01581	1.416	0.2938	0.442	0.079	0.016	1.48	0.168	Clay Loam
L	0.50	0.01112	1.472	0.3207	0.399	0.061	0.020	1.59	0.148	Loam
LS	4.38	0.03475	1.746	0.4273	0.390	0.049	0.040	1.62	0.076	Loamy Sand
S	26.78	0.03524	3.177	0.6852	0.375	0.053	0.044	1.66	0.054	Sand
SC	0.47	0.03342	1.208	0.1722	0.385	0.117	0.025	1.63	0.197	Sandy Clay
SCL	0.55	0.02109	1.330	0.2481	0.384	0.063	0.029	1.63	0.146	Sandy Clay Loam
SI	1.82	0.00658	1.679	0.4044	0.489	0.050	0.0046	1.35	0.167	Silt
SIC	0.40	0.01622	1.321	0.2430	0.481	0.111	0.0039	1.38	0.216	Silty Clay
SICL	0.46	0.00839	1.521	0.3425	0.482	0.090	0.0056	1.37	0.198	Silty Clay Loam
SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam

Chemical Properties Lookup Table														
CAS No.	Chemical	Organic carbon partition coefficient, K _a	Pure component water solubility, S	Henry's law constant, H'	Henry's law constant at reference temperature, H	Henry's law constant reference temperature, T _R	Normal boiling point, T _B	Critical temperature, T _c	Enthalpy of vaporization at the normal boiling point, ΔH _{v,s}	Unit risk factor, R _{FC}	Reference conc., URF	Physical state at soil temperature, (S,L,G)	URF extrapolated	RIC extrapolated
		(cm ³ /g)	(cm ³ /s)	(mg/L)	(unitless)	(atm·m ³ /mol)	(°C)	(°K)	(cal/mol)	(μg/m ³) ⁻¹	(mg/m ³)	(S,L,G)	(X)	(X)
56235	Carbon tetrachloride	1.74E+02	7.80E-02	8.80E-06	7.93E+02	1.24E+00	3.03E-02	25	349.90	556.60	7,127	6.0E-06	1.0E-01	L
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	1.0E-04	7.0E-04	S
58899	gamma-HCH (Lindane)	1.07E+03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	3.7E-04	1.1E-03	S
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	L
60571	Dieldrin	2.14E+02	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	4.6E-03	1.8E-04	S
67641	Acetone	5.75E-01	1.24E-01	1.14E-05	1.00E+06	1.59E-03	3.87E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	L
67663	Chloromor	3.98E+01	1.04E-01	1.00E-05	7.92E+03	1.50E-01	3.66E-03	25	334.32	536.40	6,988	2.3E-05	9.8E-02	L
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	1.1E-05	3.0E-02	S
71432	Benzene	5.89E+01	8.80E-02	9.80E-06	1.79E-03	2.27E-01	5.54E-03	25	353.24	562.16	7,342	7.8E-06	3.0E-02	L
71556	1,1,1-Trichloroethane	1.10E-02	7.80E-02	8.80E-06	1.33E-03	7.05E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	5.0E+00	L
72435	Mercaptochlor	9.77E+04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.585E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	S
72559	DDE	4.47E+06	1.44E-02	5.67E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	9.7E-05	0.0E+00	S
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	5.0E-03	G
74873	Methyl chloride (chloromethane)	2.12E+00	1.26E-01	6.50E-06	5.33E-03	3.61E-01	8.80E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	L
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	L
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E-04	3.52E-02	8.59E-04	25	370.00	583.00	7,866	0.0E+00	4.0E-04	L
75003	Chloroethane (ethyl chloride)	4.40E+00	2.71E-01	1.15E-05	5.68E-03	3.61E-01	8.80E-03	25	285.30	460.40	5,879	0.0E+00	1.0E+01	L
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E-03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	4.4E-06	1.0E-01	G
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	L
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	2.32E-03	7.87E-05	25	293.10	466.00	6,157	2.2E-06	9.0E-03	L
75092	Methylene chloride	1.17E+01	1.01E-01	1.17E-05	1.30E+04	8.96E-02	2.18E-03	25	313.00	510.00	6,706	1.0E-08	6.0E-01	L
75150	Carbon disulfide	4.57E+01	1.04E-01	1.00E-05	1.19E-03	1.24E+00	3.02E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	L
75218	Ethyne oxide	1.33E+00	1.04E-01	1.45E-05	3.04E-05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	1.0E-04	0.0E+00	L
75252	Bromoform	8.71E+01	1.49E-02	1.03E-05	3.10E-03	2.41E-02	5.88E-04	25	422.35	696.00	9,479	1.1E-06	0.0E+00	L
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E-03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	3.7E-05	0.0E+00	L
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E-03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	L
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-05	5.06E-03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	1.6E-06	0.0E+00	L
75354	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E-03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	2.0E-01	L
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	L
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E-03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	L
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E-02	1.40E-01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	1.0E-01	L
76131	1,1,2-Trichloro-1,2,2-trifluoroethane	1.11E+04	7.80E-02	8.20E-06	1.70E-02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E+01	L
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	1.3E-03	1.8E-03	S
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.0E+00	2.0E-04	L
78831	Isobutanol	2.59E+00	8.60E-02	9.30E-06	8.50E-04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	L
78875	1,2-Dichloropropane	4.37E+01	7.82E-02	8.73E-06	2.80E-03	1.15E-01	2.79E-03	25	369.52	572.00	7,590	1.0E-05	4.0E-03	L
78933	Methylmethyketone (2-butanone)	2.30E+00	8.08E-02	9.80E-06	2.03E+05	2.29E-03	5.58E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	L
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E-03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	1.6E-05	2.0E-04	L
79016	Trichloroethylene	1.66E+02	7.90E-02	9.10E-06	1.47E-03	4.21E-01	1.03E-02	25	360.36	544.20	7,505	4.1E-06	3.0E-03	L
79209	Metanol acetate	3.26E+00	1.04E-01	1.00E-05	2.00E-03	4.84E-03	1.18E-04	25	329.80	506.70	7,266	0.0E+00	3.5E+00	L
79345	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E-03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	5.8E-05	0.0E+00	L
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E-04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	L
83329	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	0.0E+00	S
86737	Fluorene	1.39E+04	3.63E-02	7.88E-06	1.98E-02	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	0.0E+00	S
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	3.33E-01	8.13E-03	25	486.15	738.00	10,206	2.2E-05	0.0E+00	L
88722	o-Nitrotoluene	3.24E+02	5.87E-02	6.50E-02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.0E+00	0.0E+00	X	
91203	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	4.82E-04	25	491.14	748.40	10,373	3.4E-05	3.0E-03	S
91576	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E-01	2.12E-02	5.17E-04	25	514.26	761.00	12,600	0.0E+00	3.0E-03	S

VLOOKUP TABLES

106467 1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9.271	1.1E-05	8.0E-01	S
106934 1,2-Dibromoethane (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8.310	6.0E-04	9.0E-03	L
106990 1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5.370	3.0E-02	2.0E-03	L
107028 Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6.731	0.0E+00	2.0E-05	L
107062 1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7.643	2.6E-05	7.0E-03	L
107131 Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7.786	6.8E-05	2.0E-03	L
108054 Vinyl acetate	5.25E+00	8.50E-02	9.20E-06	2.00E+04	2.09E-02	5.10E-04	25	345.65	519.13	7.800	0.0E+00	2.0E-01	L
108101 Methylisobutylketone (4-methyl-2-	9.06E+00	7.50E-02	7.80E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8.243	0.0E+00	3.0E+00	L
108383 m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8.523	0.0E+00	1.0E-01	L
108678 1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9.321	0.0E+00	7.0E-03	L
108872 Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7.474	0.0E+00	3.0E+00	L
108883 Toluene	1.82E+02	8.70E-02	8.60E-06	5.26E+02	2.72E-01	6.62E-03	25	383.78	591.79	7.930	0.0E+00	5.0E+00	L
108907 Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8.410	0.0E+00	5.0E-02	L
106693 1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7.263	0.0E+00	1.4E+00	L
110009 Furan	1.88E-01	1.04E-01	1.22E-05	1.00E-04	2.21E-01	5.39E-03	25	304.60	490.20	6.477	0.0E+00	3.5E-03	X
110543 Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6.895	0.0E+00	2.0E-01	L
111444 Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10.803	3.3E-04	0.0E+00	L
115297 Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14.000	0.0E+00	2.1E-02	S
118741 Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14.447	4.6E-04	0.0E+00	S
120821 1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10.471	0.0E+00	2.0E-03	L
123739 Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	L
124481 Chlorodibromomethane	6.31E+01	1.96E-02	1.05E-05	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5.900	2.7E-05	0.0E+00	L
126987 Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7.600	0.0E+00	7.0E-04	L
126998 2-Chloro-1,3-butadiene (chloroprene	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8.075	0.0E+00	7.0E-03	L
127184 Tetrachloroethylene	1.55E+02	7.20E-02	8.20E-06	2.00E+02	7.53E-01	1.84E-02	25	394.40	620.20	8.288	2.6E-07	6.0E-04	L
129000 Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14370	0.0E+00	0.0E+00	S
132649 Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	0.0E+00	S
135988 sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	3.0E-02	L
141786 Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	L
156592 cis-1,2-Dichloroethylene	3.55E+01	7.36E-02	1.13E-05	3.50E+03	1.67E-01	4.07E-03	25	333.65	544	7192	0.0E+00	6.0E-02	L
156603 trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	6.0E-02	L
541731 1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.88E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	2.0E-01	L
309002 Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	4.9E-03	1.1E-04	S
319846 alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	1.8E-03	0.0E+00	S
542756 1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	4.0E-06	2.0E-02	L
630206 1,1,1,2-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.90E-02	2.41E-03	25	403.5	624	9768.282525	7.4E-06	0.0E+00	L
1634944 MTBE	7.28E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	0.0E+00	3.0E+00	L
7439976 Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	3.0E-04	L
591786 2-Hexanone	1.50E+01	7.00E-02	8.40E-06	1.70E+04	3.80E-03	9.30E-05	25	400.8	587	8554	0.0E+00	3.0E-02	L

1,2,4-Trimethylbenzene

Benzene

trans-1,2-Dichloroethylene

1,2-Dichlorobenzene

Highlighted chemicals do not have inhalation toxicity values or a surrogate.

