

SL-ADV  
Version 3.1; 02/04

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

YES

X

Reset to  
Defaults

OR

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

YES

**ENTER**  
Chemical  
CAS No.  
(numbers only,  
no dashes)

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

Chemical

71432

Benzene

MORE  
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| <b>ENTER</b><br>Average<br>soil<br>temperature,<br>$T_s$<br>( $^{\circ}\text{C}$ ) | <b>ENTER</b><br>Depth<br>below grade<br>to bottom<br>of enclosed<br>space floor,<br>$L_f$<br>(cm) | <b>ENTER</b><br>Depth below<br>grade to top<br>of contamination,<br>$L_i$<br>(cm) | <b>ENTER</b><br>Depth below<br>grade to bottom<br>of contamination,<br>(enter value of 0<br>if value is unknown)<br>$L_b$<br>(cm) | <b>ENTER</b><br>Thickness<br>of soil<br>stratum A,<br>$h_A$<br>(cm) | <b>ENTER</b><br>Thickness<br>of soil<br>stratum B,<br>(Enter value or 0)<br>$h_B$<br>(cm) | <b>ENTER</b><br>Thickness<br>of soil<br>stratum C,<br>(Enter value or 0)<br>$h_C$<br>(cm) | <b>ENTER</b><br>Soil<br>stratum A<br>SCS<br>soil type<br>(used to estimate<br>soil vapor<br>permeability) | <b>OR</b> | <b>ENTER</b><br>User-defined<br>stratum A<br>soil vapor<br>permeability,<br>$k_v$<br>( $\text{cm}^2$ ) |
|--|---|---|---|---|---|---|---|-----------|--|
| 10   | 15  | 610   | 640   | 610   | 0   | 0   |   |           | 1.00E-08   |

MORE  
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| <b>ENTER</b><br>Stratum A<br>SCS<br>soil type<br><br>Lookup Soil<br>Parameters | <b>ENTER</b><br>Stratum A<br>soil dry<br>bulk density,<br>$\rho_b^A$<br>( $\text{g/cm}^3$ ) | <b>ENTER</b><br>Stratum A<br>soil total<br>porosity,<br>$n^A$<br>(unitless) | <b>ENTER</b><br>Stratum A<br>soil water-filled<br>porosity,<br>$\theta_w^A$<br>( $\text{cm}^3/\text{cm}^3$ ) | <b>ENTER</b><br>Stratum A<br>soil organic<br>carbon fraction,<br>$f_{oc}^A$<br>(unitless) | <b>ENTER</b><br>Stratum B<br>SCS<br>soil type<br><br>Lookup Soil<br>Parameters | <b>ENTER</b><br>Stratum B<br>soil dry<br>bulk density,<br>$\rho_b^B$<br>( $\text{g/cm}^3$ ) | <b>ENTER</b><br>Stratum B<br>soil total<br>porosity,<br>$n^B$<br>(unitless) | <b>ENTER</b><br>Stratum B<br>soil water-filled<br>porosity,<br>$\theta_w^B$<br>( $\text{cm}^3/\text{cm}^3$ ) | <b>ENTER</b><br>Stratum B<br>soil organic<br>carbon fraction,<br>$f_{oc}^B$<br>(unitless) | <b>ENTER</b><br>Stratum C<br>SCS<br>soil type<br><br>Lookup Soil<br>Parameters | <b>ENTER</b><br>Stratum C<br>soil dry<br>bulk density,<br>$\rho_b^C$<br>( $\text{g/cm}^3$ ) | <b>ENTER</b><br>Stratum C<br>soil total<br>porosity,<br>$n^C$<br>(unitless) | <b>ENTER</b><br>Stratum C<br>soil water-filled<br>porosity,<br>$\theta_w^C$<br>( $\text{cm}^3/\text{cm}^3$ ) | <b>ENTER</b><br>Stratum C<br>soil organic<br>carbon fraction,<br>$f_{oc}^C$<br>(unitless) |
|--|---|---|--|---|--|---|---|--|---|--|---|---|--|---|
|  | 1.65  | 0.439   | 0.045  | 0.002   |  |   |   |  |   |  |   |   |  |   |

MORE  
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| <b>ENTER</b><br>Enclosed<br>space<br>floor<br>thickness,<br>$L_{crack}$<br>(cm) | <b>ENTER</b><br>Soil-bldg.<br>pressure<br>differential,<br>$\Delta P$<br>( $\text{g/cm-s}^2$ ) | <b>ENTER</b><br>Enclosed<br>space<br>floor<br>length,<br>$L_B$<br>(cm) | <b>ENTER</b><br>Enclosed<br>space<br>floor<br>width,<br>$W_B$<br>(cm) | <b>ENTER</b><br>Enclosed<br>space<br>height,<br>$H_B$<br>(cm) | <b>ENTER</b><br>Floor-wall<br>seam crack<br>width,<br>$w$<br>(cm) | <b>ENTER</b><br>Indoor<br>air exchange<br>rate,<br>$ER$<br>(1/h) | <b>ENTER</b><br>Average vapor<br>flow rate into bldg.<br>OR<br>Leave blank to calculate<br>$Q_{v,air}$<br>(L/m) |
|---|--|--|---|---|---|--|---|
| 10  | 40   | 1000   | 1000  | 244   | 0.1   | 0.25   |   |

| <b>ENTER</b><br>Averaging<br>time for<br>carcinogens,<br>$AT_C$<br>(yrs) | <b>ENTER</b><br>Averaging<br>time for<br>noncarcinogens,<br>$AT_{NC}$<br>(yrs) | <b>ENTER</b><br>Exposure<br>duration,<br>$ED$<br>(yrs) | <b>ENTER</b><br>Exposure<br>frequency,<br>$EF$<br>(days/yr) | <b>ENTER</b><br>Target<br>risk for<br>carcinogens,<br>$TR$<br>(unitless) | <b>ENTER</b><br>Target hazard<br>quotient for<br>noncarcinogens,<br>$THQ$<br>(unitless) |
|--|--|--|---|--|---|
| 70   | 30   | 30   | 350   | 1.0E-05  | 1   |

END

Used to calculate risk-based  
soil concentration.

# CHEMICAL PROPERTIES SHEET

| Diffusivity<br>in air,<br>$D_a$<br>( $\text{cm}^2/\text{s}$ ) | Diffusivity<br>in water,<br>$D_w$<br>( $\text{cm}^2/\text{s}$ ) | Henry's<br>law constant<br>at reference<br>temperature,<br>H<br>( $\text{atm}\cdot\text{m}^3/\text{mol}$ ) | Henry's<br>law constant<br>reference<br>temperature,<br>$T_R$<br>( $^\circ\text{C}$ ) | Enthalpy of<br>vaporization at<br>the normal<br>boiling point,<br>$\Delta H_{v,b}$<br>( $\text{cal/mol}$ ) | Normal<br>boiling<br>point,<br>$T_B$<br>( $^\circ\text{K}$ ) | Critical<br>temperature,<br>$T_C$<br>( $^\circ\text{K}$ ) | Organic<br>carbon<br>partition<br>coefficient,<br>$K_{oc}$<br>( $\text{cm}^3/\text{g}$ ) | Pure<br>component<br>water<br>solubility,<br>S<br>( $\text{mg/L}$ ) | Unit<br>risk<br>factor,<br>URF<br>( $\mu\text{g}/\text{m}^3$ ) <sup>-1</sup> | Reference<br>conc.,<br>RfC<br>( $\text{mg}/\text{m}^3$ ) | Physical<br>state at<br>soil<br>temperature,<br>(S,L,G) |
|---|---|--|---|--|--|---|--|---|--|--|---|
| 8.80E-02  | 9.80E-06  | 5.54E-03   | 25  | 7,342  | 353.24   | 562.16  | 5.89E+01   | 1.79E+03  | 7.8E-06  | 3.0E-02  | L   |

END

INTERMEDIATE CALCULATIONS SHEET

| Exposure duration,<br>$\tau$<br>(sec) | Source-building separation,<br>$L_T$<br>(cm) | Stratum A soil air-filled porosity,<br>$\theta_a^A$<br>(cm <sup>3</sup> /cm <sup>3</sup> ) | Stratum B soil air-filled porosity,<br>$\theta_a^B$<br>(cm <sup>3</sup> /cm <sup>3</sup> ) | Stratum C soil air-filled porosity,<br>$\theta_a^C$<br>(cm <sup>3</sup> /cm <sup>3</sup> ) | Stratum A effective total fluid saturation,<br>$S_{fe}$<br>(cm <sup>3</sup> /cm <sup>3</sup> ) | Stratum A soil intrinsic permeability,<br>$k_i$<br>(cm <sup>2</sup> ) | Stratum A soil relative air permeability,<br>$k_{rg}$<br>(cm <sup>2</sup> ) | Stratum A soil effective vapor permeability,<br>$k_v$<br>(cm <sup>2</sup> ) | Floor-wall seam perimeter,<br>$X_{crack}$<br>(cm) | Initial soil concentration used,<br>$C_R$<br>(µg/kg) | Bldg. ventilation rate,<br>$Q_{building}$<br>(cm <sup>3</sup> /s) |
|---------------------------------------|--|--|--|--|--|---|---|---|---|--|---|
| 9.46E+08                              | 595  | 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,<br>$A_B$<br>(cm <sup>2</sup> ) | Crack-to-total area ratio,<br>$\eta$<br>(unitless) | Crack depth below grade,<br>$Z_{crack}$<br>(cm) | Enthalpy of vaporization at ave. soil temperature,<br>$\Delta H_{v,TS}$<br>(cal/mol) | Henry's law constant at ave. soil temperature,<br>$H_{TS}$<br>(atm-m <sup>3</sup> /mol) | Henry's law constant at ave. soil temperature,<br>$H'_{TS}$<br>(unitless) | Vapor viscosity at ave. soil temperature,<br>$\mu_{TS}$<br>(g/cm-s) | Stratum A effective diffusion coefficient,<br>$D^{eff}_A$<br>(cm <sup>2</sup> /s) | Stratum B effective diffusion coefficient,<br>$D^{eff}_B$<br>(cm <sup>2</sup> /s) | Stratum C effective diffusion coefficient,<br>$D^{eff}_C$<br>(cm <sup>2</sup> /s) | Total overall effective diffusion coefficient,<br>$D^{eff}_T$<br>(cm <sup>2</sup> /s) | Diffusion path length,<br>$L_d$<br>(cm) | Convection path length,<br>$L_p$<br>(cm) |
|--|--|---|--|---|---|---|---|---|---|---|---|--|
| 1.06E+06   | 3.77E-04   | 15  | 8,122  | 2.68E-03  | 1.15E-01  | 1.75E-04  | 2.05E-02  | 0.00E+00  | 0.00E+00  | 2.05E-02  | 595                                     | 15                                       |

| Soil-water partition coefficient,<br>$K_d$<br>(cm <sup>3</sup> /g) | Source vapor conc.,<br>$C_{source}$<br>(µg/m <sup>3</sup> ) | Crack radius,<br>$r_{crack}$<br>(cm) | Average vapor flow rate into bldg.,<br>$Q_{soil}$<br>(cm <sup>3</sup> /s) | Crack effective diffusion coefficient,<br>$D^{crack}$<br>(cm <sup>2</sup> /s) | Area of crack,<br>$A_{crack}$<br>(cm <sup>2</sup> ) | Exponent of equivalent Peclet number,<br>$\exp(Pe^d)$<br>(unitless) | Infinite source indoor attenuation coefficient,<br>$\alpha$<br>(unitless) | Infinite source bldg. conc.,<br>$C_{building}$<br>(µg/m <sup>3</sup> ) | Finite source $\beta$ term<br>(unitless) | Finite source $\psi$ term<br>(sec) <sup>-1</sup> | Time for source depletion,<br>$\tau_D$<br>(sec) | Exposure duration > time for source depletion<br>(YES/NO) |
|--|---|--------------------------------------|---|---|---|---|---|--|--|--|---|---|
| 1.18E-01   | 6.68E+02  | 0.10                                 | 1.00E+01  | 2.05E-02  | 4.00E+02  | 2.05E+05  | NA  | NA   | 4.64E+00                                 | 2.35E-08   | 1.00E+07  | YES   |

| Finite source indoor attenuation coefficient,<br>< $\alpha$ ><br>(unitless) | Mass limit bldg. conc.,<br>$C_{building}$<br>(µg/m <sup>3</sup> ) | Finite source bldg. conc.,<br>$C_{building}$<br>(µg/m <sup>3</sup> ) | Final finite source bldg. conc.,<br>$C_{building}$<br>(µg/m <sup>3</sup> ) | Unit risk factor,<br>URF<br>(µg/m <sup>3</sup> ) <sup>-1</sup> | Reference conc.,<br>RfC<br>(mg/m <sup>3</sup> ) |
|---|---|--|--|--|---|
| NA  | 3.27E-03  | NA   | 3.27E-03   | 7.8E-06  | 3.0E-02   |

END

# RESULTS SHEET

## RISK-BASED SOIL CONCENTRATION CALCULATIONS:

| Indoor exposure soil conc., carcinogen (µg/kg) | Indoor exposure soil conc., noncarcinogen (µg/kg) | Risk-based indoor exposure soil conc., (µg/kg) | Soil saturation conc., C <sub>sat</sub> (µg/kg) | Final indoor exposure soil conc., (µg/kg) |
|--|---|--|---|---|
| 9.53E+02                                       | 9.56E+03  | 9.53E+02                                       | 3.09E+05  | 9.53E+02                                  |

## 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 C<sub>source</sub> and C<sub>building</sub> on the INTERCALCS worksheet are based on unity and do not represent actual values.

SCROLL  
DOWN  
TO "END"

END

## VLOOKUP TABLES

| SCS Soil Type | Soil Properties Lookup Table |                       |              |              |                                       |  | Bulk Density             |                                     |  |
|---------------|------------------------------|-----------------------|--------------|--------------|---------------------------------------|--|--------------------------|-------------------------------------|--|
|               | K <sub>s</sub> (cm/h)        | α <sub>s</sub> (1/cm) | N (unitless) | M (unitless) | n (cm <sup>3</sup> /cm <sup>3</sup> ) | θ <sub>s</sub> (cm <sup>3</sup> /cm <sup>3</sup> ) | Mean Grain Diameter (cm) | ρ <sub>s</sub> (g/cm <sup>3</sup> ) | ρ <sub>w</sub> (cm <sup>3</sup> /cm <sup>3</sup> ) |
| 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        | 0.1725       | 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 Silty 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 <sub>oc</sub> (cm <sup>3</sup> /g) | Diffusivity in air, D <sub>a</sub> (cm <sup>2</sup> /s) | Diffusivity in water, D <sub>w</sub> (cm <sup>2</sup> /s) | Pure component water solubility, S (mg/L) | Henry's law constant H' (unitless) | Henry's law constant at reference temperature, H (atm·m <sup>3</sup> /mol) | Henry's law reference temperature, T <sub>R</sub> (°C) | Normal boiling point, T <sub>B</sub> (°K) | Critical temperature, T <sub>C</sub> (°K) | Enthalpy of vaporization at the normal boiling point, ΔH <sub>v,b</sub> (cal/mol) | Unit risk factor, URF (μg/m <sup>3</sup> ) <sup>-1</sup> | Reference conc., RIC (mg/m <sup>3</sup> ) | Physical state at soil temperature, (S,L,G) | URF extrapolated (X) | RIC extrapolated (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   | X                    | X                    |
| 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   |                      | X                    |
| 60571                            | Dieldrin                              | 2.14E+04   | 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                                   | L   |                      |                      |
| 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   |                      | X                    |
| 67663                            | Chloroform                            | 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   |                      | X                    |
| 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                                  | 7.03E-01                           | 1.72E-02   | 25   | 347.24                                    | 545.00                                    | 7,136   | 0.0E+00  | 5.0E+00                                   | L   |                      |                      |
| 72435                            | Methoxychlor                          | 9.77E+04   | 1.56E-02  | 4.46E-06  | 1.00E-01                                  | 6.46E-04                           | 1.58E-05   | 25   | 651.02                                    | 848.49                                    | 16,000  | 0.0E+00  | 1.8E-02                                   | L   |                      | X                    |
| 72559                            | DDE                                   | 4.47E+06   | 1.44E-02  | 5.87E-06  | 1.20E-01                                  | 8.59E-04                           | 2.09E-05   | 25   | 636.44                                    | 860.38                                    | 15,000  | 9.7E-05  | 0.0E+00                                   | S   | X                    |                      |
| 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                                    | 7,868   | 0.0E+00  | 4.0E-04                                   | L   |                      | X                    |
| 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   | X                    |                      |
| 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                                  | 3.23E-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                            | Ethylene 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                            | Bromofom                              | 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   |                      | X                    |
| 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   | X                    | X                    |
| 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                            | Trichlorodifluoromethane              | 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   |                      | X                    |
| 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   |                      | X                    |
| 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   | X                    |                      |
| 78933                            | Methylethylketone (2-butanone)        | 2.30E+00   | 8.08E-02  | 9.80E-06  | 2.23E+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   |                      | X                    |
| 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   | X                    |                      |
| 79209                            | Methyl acetate                        | 3.26E+00   | 1.04E-01  | 1.00E-05  | 2.00E+03                                  | 4.84E-03                           | 1.18E-04   | 25   | 329.80                                    | 506.70                                    | 7,260   | 0.0E+00  | 3.5E+00                                   | L   |                      | X                    |
| 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   |                      | X                    |
| 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   |                      |                      |
| 80626                            | Methylmethacrylate                    | 6.98E+00   | 7.70E-02  | 8.60E-06  | 1.50E+04                                  | 1.38E-02                           | 3.36E-04   | 25   | 373.50                                    | 567.00                                    | 8,975   | 0.0E+00  | 7.0E-01                                   | 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   |                      | X                    |
| 86737                            | Fluorene                              | 1.38E+04   | 3.63E-02  | 7.88E-06  | 1.98E+00                                  | 2.60E-03                           | 6.34E-05   | 25   | 570.44                                    | 870.00                                    | 12,666  | 0.0E+00  | 0.0E+00                                   | S   |                      | X                    |
| 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   |                      | X                    |
| 88722                            | o-Nitrotoluene                        | 3.24E+02   | 5.87E-02  | 8.67E-06  | 6.50E+02                                  | 5.11E-04                           | 1.25E-05   | 25   | 495.00                                    | 720.00                                    | 12,239  | 0.0E+00  | 0.0E+00                                   | L   |                      | 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   |                      | X                    |
| 92524                            | Biphenyl                              | 4.38E+03   | 4.04E-02  | 8.15E-06  | 7.45E+00                                  | 1.23E-02                           | 2.99E-04   | 25   | 529.10                                    | 789.00                                    | 10,890  | 0.0E+00  | 1.8E-01                                   | S   |                      | X                    |
| 95476                            | o-Xylene                              | 3.63E+02   | 8.70E-02  | 1.00E-05  | 1.78E+02                                  | 2.12E-01                           | 5.18E-03   | 25   | 417.60                                    | 630.30                                    | 8,661   | 0.0E+00  | 1.0E-01                                   | L   |                      |                      |
| 95501                            | 1,2-Dichlorobenzene                   | 6.17E+02   | 6.80E-02  | 7.90E-06  | 1.56E+02                                  | 7.77E-02                           | 1.90E-03   | 25   | 453.57                                    | 705.00                                    | 9,700   | 0.0E+00  | 2.0E-01                                   | L   |                      |                      |
| 95578                            | 2-Chlorophenol                        | 3.88E+02   | 5.01E-02  | 9.46E-06  | 2.20E+04                                  | 1.60E-02                           | 5.18E+05   | 25   | 447.53                                    | 675.00                                    | 9,972   | 0.0E+00  | 2.0E-01                                   | L   |                      | X                    |
| 95636                            | 1,2,4-Trimethylbenzene                | 1.35E+03   | 6.06E-02  | 7.92E-06  | 5.70E+01                                  | 2.52E-01                           | 6.14E-03   | 25   | 442.30                                    | 649.17                                    | 9,369   | 0.0E+00  | 7.0E-03                                   | L   |                      |                      |
| 96184                            | 1,2,3-Trichloropropane                | 2.20E+01   | 7.10E-02  | 7.90E-06  | 1.75E+03                                  | 1.67E-02                           | 4.08E-04   | 25   | 430.00                                    | 652.00                                    | 9,171   | 0.0E+00  | 3.0E-04                                   | L   | X                    |                      |
| 96333                            | Methyl acrylate                       | 4.53E+00   | 9.76E-02  | 1.02E-05  | 6.00E+04                                  | 7.68E-03                           | 1.87E-04   | 25   | 353.70                                    | 536.00                                    | 7,749   | 0.0E+00  | 1.1E-01                                   | L   |                      | X                    |
| 97632                            | Ethylmethacrylate                     | 2.95E+01   | 6.53E-02  | 8.37E-06  | 3.67E+03                                  | 3.44E-02                           | 8.40E-04   | 25   | 390.00                                    | 571.00                                    | 10,957  | 0.0E+00  | 3.2E-01                                   | L   |                      | X                    |
| 98066                            | tert-Butylbenzene                     | 7.71E+02   | 5.65E-02  | 8.02E-06  | 2.95E+01                                  | 4.87E-01                           | 1.19E-02   | 25   | 442.10                                    | 1220.00                                   | 8,980   | 0.0E+00  | 3.0E-02                                   | L   |                      | X                    |
| 98828                            | Cumene                                | 4.89E+02   | 6.50E-02  | 7.10E-06  | 6.13E+01                                  | 4.74E+01                           | 1.46E-02   | 25   | 425.56                                    | 631.10                                    | 10,335  | 0.0E+00  | 4.0E-01                                   | L   |                      |                      |
| 98862                            | Acetophenone                          | 5.77E+01   | 6.00E-02  | 8.73E-06  | 6.13E+03                                  | 4.38E-04                           | 1.07E-05   | 25   | 475.00                                    | 709.50                                    | 11,732  | 0.0E+00  | 3.5E-01                                   | S,L   |                      | X                    |
| 98953                            | Naphthalene                           | 6.46E+01   | 7.60E-02  | 8.60E-06  | 2.09E+03                                  | 9.82E-04                           | 2.39E-05   | 25   | 483.95                                    | 719.00                                    | 10,566  | 4.0E-05  | 9.0E-03                                   | L   |                      |                      |
| 100414                           | Ethylbenzene                          | 3.63E+02   | 7.50E-02  | 7.80E-06  | 1.69E+02                                  | 3.22E-01                           | 7.86E-03   | 25   | 409.34                                    | 617.20                                    | 8,501   | 2.5E-06  | 1.0E+00                                   | L   |                      |                      |
| 100425                           | Styrene                               | 7.75E+02   | 7.10E-02  | 8.00E-06  | 3.15E+02                                  | 1.19E-01                           | 3.15E-02   | 25   | 425.10                                    | 636.00                                    | 8,731   | 0.0E+00  | 1.0E-01                                   | L   |                      |                      |
| 100447                           | Benzylchloride                        | 6.14E+01   | 7.50E-02  | 7.80E-06  | 2.52E-02                                  | 1.70E-02                           | 4.14E-04   | 25   | 452.00                                    | 685.00                                    | 8,773   | 4.9E-05  | 0.0E+00                                   | L   | X                    |                      |
| 100527                           | Benzaldehyde                          | 4.59E+01   | 7.21E-02  | 9.07E-06  | 3.30E+03                                  | 9.73E-04                           | 2.37E-05   | 25   | 452.00                                    | 695.00                                    | 9,158   | 0.0E+00  | 3.5E-01                                   | L   |                      | X                    |
| 103651                           | n-Propylbenzene                       | 5.62E+02   | 6.01E-02  | 7.83E-06  | 6.00E+01                                  | 4.37E-01                           | 1.07E-02   | 25   | 432.20                                    | 630.00                                    | 11,623  | 0.0E+00  | 1.0E+00                                   | L   |                      | X                    |
| 104518                           | n-Butylbenzene                        | 1.11   |   |   |   |                                    |  |  |   |   |   |  |   |   |                      |                      |

## 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 | 2.19E+05 | 4.99E-03 | 1.22E-04 | 25 | 325.60 | 566.00 | 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 | 1,2,4-Trimethylbenzene |
| 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 |                        |
| 109693 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 | X                      |
| 110009 Furan                             | 1.86E+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 | L | 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 | X                      |
| 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 | X                      |
| 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 | X                      |
| 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 | X                      |
| 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 (chloropre | 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 | X                      |
| 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 | X                      |
| 135988 sec-Butylbenzene                  | 9.65E+02 | 5.70E-02 | 8.12E-06 | 3.94E+00 | 5.68E-01 | 1.39E-02 | 25 | 446.5  | 679    | 86730       | 0.0E+00 | 3.0E-02 | L | X                      |
| 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 | X                      |
| 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 | X                      |
| 156605 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 | X                      |
| 541731 1,3-Dichlorobenzene               | 1.98E+03 | 6.92E-02 | 7.86E-06 | 1.34E+02 | 1.27E-01 | 3.09E-03 | 25 | 446    | 684    | 9230.18     | 0.0E+00 | 2.0E-01 | L | X                      |
| 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 | X                      |
| 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 | X                      |
| 1634044 MTBE                             | 7.26E+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 |                        |

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



