CLEA Software Version 1.06 

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| Report generated | 29-Sep-10 |
| Report title | GAC Derivation - TPH Fractions |
| Created by | Tom Bisson at Jacobs |

**RESULTS**

Environment Agency

| | | Assessment Criterion (mg kg$^{-1}$) | | | Ratio of ADE to HCV | | | Saturation Limit (mg kg$^{-1}$) | 50% rule? | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | oral | inhalation | combined | oral | inhalation | combined | | Oral | Inhal |
| 1 | Aliphatic >C5-C6 | 4.99E+05 | 1.25E+06 | 4.39E+05 | 0.79 | 0.21 | 1.00 | 3.04E+02 (sol) | Yes | Yes |
| 2 | Aliphatic >C6-C8 | 4.99E+05 | 1.95E+06 | 4.63E+05 | 0.87 | 0.13 | 1.00 | 1.44E+02 (sol) | Yes | Yes |
| 3 | Aliphatic >C8-C10 | 9.98E+03 | 2.39E+05 | 9.87E+03 | 0.98 | 0.02 | 1.00 | 7.77E+01 (vap) | Yes | Yes |
| 4 | Aliphatic >C10-C12 | 9.98E+03 | 5.33E+05 | 9.93E+03 | 0.99 | 0.01 | 1.00 | 4.75E+01 (vap) | Yes | Yes |
| 5 | Aliphatic >C12-C16 | 9.98E+03 | 1.54E+06 | 9.96E+03 | 1.00 | 0.00 | 1.00 | 2.36E+01 (vap) | Yes | Yes |
| 6 | Aliphatic >C16-C35 | 1.99E+05 | NR | NR | 1.00 | NR | NR | 8.48E+00 (sol) | Yes | No |
| 7 | Aliphatic >C35-C44 | 1.99E+05 | NR | NR | 1.00 | NR | NR | 8.48E+00 (sol) | Yes | No |
| 8 | Aromatic >C5-C7 (Benzene) | 4.45E+04 | 2.83E+06 | 4.38E+04 | 0.98 | 0.02 | 1.00 | 1.22E+03 (sol) | No | No |
| 9 | Aromatic >C7-C8 (Toluene) | 4.44E+04 | 4.37E+06 | 4.39E+04 | 0.99 | 0.01 | 1.00 | 8.69E+02 (vap) | No | No |
| 10 | Aromatic >C8-C10 | 3.99E+03 | 1.45E+05 | 3.96E+03 | 0.99 | 0.01 | 1.00 | 6.13E+02 (vap) | Yes | Yes |
| 11 | Aromatic >C10-C12 | 3.99E+03 | 3.38E+05 | 3.98E+03 | 0.99 | 0.01 | 1.00 | 3.64E+02 (sol) | Yes | Yes |
| 12 | Aromatic >C12-C16 | 3.99E+03 | 1.12E+06 | 3.99E+03 | 1.00 | 0.00 | 1.00 | 1.69E+02 (sol) | Yes | Yes |
| 13 | Aromatic >C16-C21 | 2.99E+03 | NR | NR | 1.00 | NR | NR | 5.37E+01 (sol) | Yes | No |
| 14 | Aromatic >C21-C35 | 2.99E+03 | NR | NR | 1.00 | NR | NR | 4.82E+00 (vap) | Yes | No |
| 15 | Aromatic >C35-C44 | 2.99E+03 | NR | NR | 1.00 | NR | NR | 4.82E+00 (vap) | Yes | No |
| 16 | Aromatic and Aliphatic >C44-C70 | 2.99E+03 | NR | NR | 1.00 | NR | NR | 2.90E-01 (vap) | Yes | No |
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Environment Agency

| | Assessment Criterion (mg kg$^{-1}$) | | | Ratio of ADE to HCV | | | Saturation Limit (mg kg$^{-1}$) | 50% rule? | |
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Environment Agency

| | | Soil Distribution | | | | Media Concentrations | | | | | | | | | | | | |
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| | | Sorbed | Dissolved | Vapour | Total | Soil | Soil gas | Indoor Dust | Outdoor dust at 0.8m | Outdoor dust at 1.6m | Indoor Vapour | Outdoor vapour at 0.8m | Outdoor vapour at 1.6m | Green vegetables | Root vegetables | Tuber vegetables | Herbaceous fruit | Shrub fruit | Tree fruit |
| | | % | % | % | % | mg $kg^{-1}$ | mg $m^{-3}$ | mg $kg^{-1}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW |
| 1 | Aliphatic >C5-C6 | 55.7 | 3.2 | 41.0 | 100.0 | 4.39E+05 | 1.09E+09 | NA | 1.87E-04 | 0.00E+00 | NA | 1.07E+01 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 2 | Aliphatic >C6-C8 | 82.2 | 1.0 | 16.8 | 100.0 | 4.63E+05 | 4.71E+08 | NA | 1.97E-04 | 0.00E+00 | NA | 7.18E+00 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 3 | Aliphatic >C8-C10 | 96.1 | 0.1 | 3.8 | 100.0 | 9.87E+03 | 2.25E+06 | NA | 4.20E-06 | 0.00E+00 | NA | 7.25E-02 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 4 | Aliphatic >C10-C12 | 99.2 | 0.0 | 0.8 | 100.0 | 9.93E+03 | 4.56E+05 | NA | 4.23E-06 | 0.00E+00 | NA | 3.28E-02 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 5 | Aliphatic >C12-C16 | 99.9 | 0.0 | 0.1 | 100.0 | 9.96E+03 | 5.47E+04 | NA | 4.24E-06 | 0.00E+00 | NA | 1.14E-02 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 6 | Aliphatic >C16-C35 | 100.0 | 0.0 | 0.0 | 100.0 | 1.99E+05 | 6.37E+04 | NA | 8.45E-05 | 0.00E+00 | NA | 5.47E-02 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 7 | Aliphatic >C35-C44 | 100.0 | 0.0 | 0.0 | 100.0 | 1.99E+05 | 6.37E+04 | NA | 8.45E-05 | 0.00E+00 | NA | 5.47E-02 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 8 | Aromatic >C5-C7 (Benzene) | 57.3 | 39.9 | 2.8 | 100.0 | 4.38E+04 | 7.42E+06 | NA | 1.86E-05 | 0.00E+00 | NA | 2.60E-01 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 9 | Aromatic >C7-C8 (Toluene) | 80.2 | 18.5 | 1.3 | 100.0 | 4.39E+04 | 3.42E+06 | NA | 1.87E-05 | 0.00E+00 | NA | 1.67E-01 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 10 | Aromatic >C8-C10 | 96.7 | 2.9 | 0.4 | 100.0 | 3.96E+03 | 1.05E+05 | NA | 1.69E-06 | 0.00E+00 | NA | 9.96E-03 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 11 | Aromatic >C10-C12 | 98.1 | 1.8 | 0.1 | 100.0 | 3.98E+03 | 1.93E+04 | NA | 1.69E-06 | 0.00E+00 | NA | 4.28E-03 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 12 | Aromatic >C12-C16 | 99.1 | 0.9 | 0.0 | 100.0 | 3.99E+03 | 1.71E+03 | NA | 1.70E-06 | 0.00E+00 | NA | 1.30E-03 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 13 | Aromatic >C16-C21 | 99.7 | 0.3 | 0.0 | 100.0 | 2.99E+03 | 2.53E+01 | NA | 1.27E-06 | 0.00E+00 | NA | 1.78E-04 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 14 | Aromatic >C21-C35 | 100.0 | 0.0 | 0.0 | 100.0 | 2.99E+03 | 1.02E-01 | NA | 1.27E-06 | 0.00E+00 | NA | 4.01E-05 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 15 | Aromatic >C35-C44 | 100.0 | 0.0 | 0.0 | 100.0 | 2.99E+03 | 1.02E-01 | NA | 1.27E-06 | 0.00E+00 | NA | 4.01E-05 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
| 16 | Aromatic and Aliphatic >C44-C7 | 100.0 | 0.0 | 0.0 | 100.0 | 2.99E+03 | 1.69E+00 | NA | 1.27E-06 | 0.00E+00 | NA | 3.98E-05 | 0.00E+00 | NA | NA | NA | NA | NA | NA |
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| | Soil Distribution | | | | Media Concentrations | | | | | | | | | | | | | |
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| | Sorbed | Dissolved | Vapour | Total | Soil | Soil gas | Indoor Dust | Outdoor dust at 0.8m | Outdoor dust at 1.6m | Indoor Vapour | Outdoor vapour at 0.8m | Outdoor vapour at 1.6m | Green vegetables | Root vegetables | Tuber vegetables | Herbaceous fruit | Shrub fruit | Tree fruit |
| | % | % | % | % | mg $kg^{-1}$ | mg $m^{-3}$ | mg $kg^{-1}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $m^{-3}$ | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW | mg $kg^{-1}$ FW |
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POS TPH Fractions

Environment Agency

| | | Average Daily Exposure (mg kg$^{-1}$ bw day$^{-1}$) | | | | | | | Distribution by Pathway (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Direct soil ingestion | Consumption of homegrown produce and attached soil | Dermal contact with soil and dust | Inhalation of dust | Inhalation of vapour | Background (oral) | Background (inhalation) | Direct soil ingestion | Consumption of homegrown produce and attached soil | Dermal contact with soil and dust | Inhalation of dust | Inhalation of vapour (indoor) | Inhalation of vapour (outdoor) | Background (oral) | Background (inhalation) |
| 1 | Aliphatic >C5-C6 | 1.93E+00 | 0.00E+00 | 2.68E-01 | 1.54E-05 | 8.79E-01 | 5.62E+95 | 6.06E+95 | 31.39 | 0.00 | 4.35 | 0.00 | 0.00 | 14.27 | 35.73 | 14.27 |
| 2 | Aliphatic >C6-C8 | 2.04E+00 | 0.00E+00 | 2.82E-01 | 1.63E-05 | 5.93E-01 | 5.62E+95 | 6.06E+95 | 34.98 | 0.00 | 4.84 | 0.00 | 0.00 | 10.18 | 39.82 | 10.18 |
| 3 | Aliphatic >C8-C10 | 4.35E-02 | 0.00E+00 | 6.02E-03 | 3.47E-07 | 5.98E-03 | 5.62E+95 | 6.06E+95 | 39.18 | 0.00 | 5.43 | 0.00 | 0.00 | 5.39 | 44.61 | 5.39 |
| 4 | Aliphatic >C10-C12 | 4.37E-02 | 0.00E+00 | 6.05E-03 | 3.49E-07 | 2.70E-03 | 5.62E+95 | 6.06E+95 | 41.66 | 0.00 | 5.77 | 0.00 | 0.00 | 2.58 | 47.42 | 2.58 |
| 5 | Aliphatic >C12-C16 | 4.39E-02 | 0.00E+00 | 6.07E-03 | 3.50E-07 | 9.37E-04 | 5.62E+95 | 6.06E+95 | 43.11 | 0.00 | 5.97 | 0.00 | 0.00 | 0.92 | 49.08 | 0.92 |
| 6 | Aliphatic >C16-C35 | 8.74E-01 | 0.00E+00 | 1.21E-01 | 6.98E-06 | 4.52E-03 | 5.62E+95 | 0.00E+00 | 43.72 | 0.00 | 6.05 | 0.00 | 0.00 | 0.23 | 50.00 | 0.00 |
| 7 | Aliphatic >C35-C44 | 8.74E-01 | 0.00E+00 | 1.21E-01 | 6.98E-06 | 4.52E-03 | 5.62E+95 | 0.00E+00 | 43.72 | 0.00 | 6.05 | 0.00 | 0.00 | 0.23 | 50.00 | 0.00 |
| 8 | Aromatic >C5-C7 (Benzene) | 1.93E-01 | 0.00E+00 | 2.67E-02 | 1.54E-06 | 2.15E-02 | 1.69E-04 | 1.21E-02 | 76.12 | 0.00 | 10.54 | 0.00 | 0.00 | 8.48 | 0.07 | 4.79 |
| 9 | Aromatic >C7-C8 (Toluene) | 1.93E-01 | 0.00E+00 | 2.68E-02 | 1.54E-06 | 1.38E-02 | 5.63E-04 | 3.15E-02 | 77.90 | 0.00 | 10.79 | 0.00 | 0.00 | 5.54 | 0.23 | 5.54 |
| 10 | Aromatic >C8-C10 | 1.74E-02 | 0.00E+00 | 2.42E-03 | 1.39E-07 | 8.22E-04 | 5.62E+95 | 6.06E+95 | 42.17 | 0.00 | 5.84 | 0.00 | 0.00 | 1.99 | 48.01 | 1.99 |
| 11 | Aromatic >C10-C12 | 1.75E-02 | 0.00E+00 | 2.43E-03 | 1.40E-07 | 3.53E-04 | 5.62E+95 | 6.06E+95 | 43.15 | 0.00 | 5.98 | 0.00 | 0.00 | 0.87 | 49.13 | 0.87 |
| 12 | Aromatic >C12-C16 | 1.75E-02 | 0.00E+00 | 2.43E-03 | 1.40E-07 | 1.07E-04 | 5.62E+95 | 6.06E+95 | 43.68 | 0.00 | 6.05 | 0.00 | 0.00 | 0.27 | 49.73 | 0.27 |
| 13 | Aromatic >C16-C21 | 1.32E-02 | 0.00E+00 | 1.82E-03 | 1.05E-07 | 1.47E-05 | 5.62E+95 | 0.00E+00 | 43.87 | 0.00 | 6.08 | 0.00 | 0.00 | 0.05 | 50.00 | 0.00 |
| 14 | Aromatic >C21-C35 | 1.32E-02 | 0.00E+00 | 1.82E-03 | 1.05E-07 | 3.31E-06 | 5.62E+95 | 0.00E+00 | 43.91 | 0.00 | 6.08 | 0.00 | 0.00 | 0.01 | 50.00 | 0.00 |
| 15 | Aromatic >C35-C44 | 1.32E-02 | 0.00E+00 | 1.82E-03 | 1.05E-07 | 3.31E-06 | 5.62E+95 | 0.00E+00 | 43.91 | 0.00 | 6.08 | 0.00 | 0.00 | 0.01 | 50.00 | 0.00 |
| 16 | Aromatic and Aliphatic >C44-C7 | 1.32E-02 | 0.00E+00 | 1.82E-03 | 1.05E-07 | 3.28E-06 | 5.62E+95 | 0.00E+00 | 43.91 | 0.00 | 6.08 | 0.00 | 0.00 | 0.01 | 50.00 | 0.00 |
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Environment Agency

| | Average Daily Exposure (mg kg$^{-1}$ bw day$^{-1}$) | | | | | | | Distribution by Pathway (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Direct soil ingestion | Consumption of homegrown produce and attached soil | Dermal contact with soil and dust | Inhalation of dust | Inhalation of vapour | Background (oral) | Background (inhalation) | Direct soil ingestion | Consumption of homegrown produce | Dermal contact with soil and dust | Inhalation of dust | Inhalation of vapour (indoor) | Inhalation of vapour (outdoor) | Background (oral) | Background (inhalation) |
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Environment Agency

| | | Oral Health Criteria Value (µg kg$^{-1}$ BW day$^{-1}$) | | Inhalation Health Criteria Value (µg kg$^{-1}$ BW day$^{-1}$) | | Oral Mean Daily Intake (µg day$^{-1}$) | Inhalation Mean Daily Intake (µg day$^{-1}$) | Air-water partition coefficient ($K_{aw}$) (cm$^3$ cm$^{-3}$) | Coefficient of Diffusion in Air (m$^2$ s$^{-1}$) | Coefficient of Diffusion in Water (m$^2$ s$^{-1}$) | log $K_{oc}$ (cm$^3$ g$^{-1}$) | log $K_{ow}$ (dimensionless) | Dermal Absorption Fraction (dimensionless) | Soil-to-dust transport factor (g g$^{-1}$ DW) | Sub-surface soil to indoor air correction factor (dimensionless) | Relative bioavailability via soil ingestion (unitless) | Relative bioavailability via dust inhalation (unitless) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aliphatic >C5-C6 | TDI | 5000 | TDI | 5000 | 9.99E+99 | 9.99E+99 | 2.10E+01 | 1.00E-05 | 1.00E-09 | 2.91 | 3.31 | 0.1 | 0.5 | 10 | 1 | 1 |
| 2 | Aliphatic >C6-C8 | TDI | 5000 | TDI | 5000 | 9.99E+99 | 9.99E+99 | 2.73E+01 | 1.00E-05 | 1.00E-09 | 3.58 | 4.13 | 0.1 | 0.5 | 10 | 1 | 1 |
| 3 | Aliphatic >C8-C10 | TDI | 100 | TDI | 290 | 9.99E+99 | 9.99E+99 | 4.15E+01 | 1.00E-05 | 1.00E-09 | 4.48 | 5.22 | 0.1 | 0.5 | 10 | 1 | 1 |
| 4 | Aliphatic >C10-C12 | TDI | 100 | TDI | 290 | 9.99E+99 | 9.99E+99 | 6.44E+01 | 1.00E-05 | 1.00E-09 | 5.38 | 6.3 | 0.1 | 0.5 | 10 | 1 | 1 |
| 5 | Aliphatic >C12-C16 | TDI | 100 | TDI | 290 | 9.99E+99 | 9.99E+99 | 1.71E+02 | 1.00E-05 | 1.00E-09 | 6.73 | 7.94 | 0.1 | 0.5 | 10 | 1 | 1 |
| 6 | Aliphatic >C16-C35 | TDI | 2000 | NR | NR | 9.99E+99 | NR | 1.07E+03 | 1.00E-05 | 1.00E-09 | 8.76 | 10.39 | 0.1 | 0.5 | 10 | 1 | 1 |
| 7 | Aliphatic >C35-C44 | TDI | 2000 | NR | NR | 9.99E+99 | NR | 1.07E+03 | 1.00E-05 | 1.00E-09 | 8.76 | 10.39 | 0.1 | 0.5 | 10 | 1 | 1 |
| 8 | Aromatic >C5-C7 (Benzene) | TDI | 223 | TDI | 1400 | 3 | 200 | 1.16E-01 | 8.77E-06 | 6.64E-10 | 1.83 | 2.13 | 0.1 | 0.5 | 10 | 1 | 1 |
| 9 | Aromatic >C7-C8 (Toluene) | TDI | 223 | TDI | 1400 | 10 | 520 | 1.15E-01 | 7.78E-06 | 5.88E-10 | 2.31 | 2.73 | 0.1 | 0.5 | 10 | 1 | 1 |
| 10 | Aromatic >C8-C10 | TDI | 40 | TDI | 60 | 9.99E+99 | 9.99E+99 | 2.53E-01 | 1.00E-05 | 1.00E-09 | 3.2 | 3.69 | 0.1 | 0.5 | 10 | 1 | 1 |
| 11 | Aromatic >C10-C12 | TDI | 40 | TDI | 60 | 9.99E+99 | 9.99E+99 | 7.22E-02 | 1.00E-05 | 1.00E-09 | 3.4 | 3.93 | 0.1 | 0.5 | 10 | 1 | 1 |
| 12 | Aromatic >C12-C16 | TDI | 40 | TDI | 60 | 9.99E+99 | 9.99E+99 | 1.26E-02 | 1.00E-05 | 1.00E-09 | 3.7 | 4.29 | 0.1 | 0.5 | 10 | 1 | 1 |
| 13 | Aromatic >C16-C21 | TDI | 30 | NR | NR | 9.99E+99 | NR | 6.95E-04 | 1.00E-05 | 1.00E-09 | 4.15 | 4.82 | 0.1 | 0.5 | 10 | 1 | 1 |
| 14 | Aromatic >C21-C35 | TDI | 30 | NR | NR | 9.99E+99 | NR | 2.48E-05 | 1.00E-05 | 1.00E-09 | 5.1 | 5.95 | 0.1 | 0.5 | 10 | 1 | 1 |
| 15 | Aromatic >C35-C44 | TDI | 30 | NR | NR | 9.99E+99 | NR | 2.48E-05 | 1.00E-05 | 1.00E-09 | 5.1 | 5.95 | 0.1 | 0.5 | 10 | 1 | 1 |
| 16 | Aromatic and Aliphatic >C44-C7 | TDI | 30 | NR | NR | 9.99E+99 | NR | 1.64E-03 | 1.00E-05 | 1.00E-09 | 5.7 | 6.66 | 0.1 | 0.5 | 10 | 1 | 1 |
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| | Oral Health Criteria Value (µg $kg^{-1}$ BW $day^{-1}$) | | Inhalation Health Criteria Value (µg $kg^{-1}$ BW $day^{-1}$) | | Oral Mean Daily Intake (µg $day^{-1}$) | Inhalation Mean Daily Intake (µg $day^{-1}$) | Air-water partition coefficient ($K_{aw}$) ($cm^3$ $cm^{-3}$) | Coefficient of Diffusion in Air ($m^2$ $s^{-1}$) | Coefficient of Diffusion in Water ($m^2$ $s^{-1}$) | log $K_{oc}$ ($cm^3$ $g^{-1}$) | log $K_{ow}$ (dimensionless) | Dermal Absorption Fraction (dimensionless) | Soil-to-dust transport factor (g $g^{-1}$ DW) | Sub-surface soil to indoor air correction factor (dimensionless) | Relative bioavailability via soil ingestion (unitless) | Relative bioavailability via dust inhalation (unitless) |
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Environment Agency

| | | Soil-to-water partition coefficient ($cm^3 g^{-1}$) | Vapour pressure (Pa) | Water solubility (mg $L^{-1}$) | Soil-to-plant concentration factor for green vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for root vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for tuber vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for herbaceous fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for shrub fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for tree fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Aliphatic >C5-C6 | 4.71E+00 | 2.19E+04 | 3.59E+01 | model | model | model | model | model | model |
| 2 | Aliphatic >C6-C8 | 2.21E+01 | 3.45E+03 | 5.37E+00 | model | model | model | model | model | model |
| 3 | Aliphatic >C8-C10 | 1.75E+02 | 3.20E+02 | 4.27E-01 | model | model | model | model | model | model |
| 4 | Aliphatic >C10-C12 | 1.39E+03 | 3.21E+01 | 3.39E-02 | model | model | model | model | model | model |
| 5 | Aliphatic >C12-C16 | 3.11E+04 | 1.53E+00 | 7.59E-04 | model | model | model | model | model | model |
| 6 | Aliphatic >C16-C35 | 3.34E+06 | 2.38E-02 | 2.54E-06 | model | model | model | model | model | model |
| 7 | Aliphatic >C35-C44 | 3.34E+06 | 2.38E-02 | 2.54E-06 | model | model | model | model | model | model |
| 8 | Aromatic >C5-C7 (Benzene) | 3.92E-01 | 6.24E+03 | 1.78E+03 | model | model | model | model | model | model |
| 9 | Aromatic >C7-C8 (Toluene) | 1.18E+00 | 1.73E+03 | 5.90E+02 | model | model | model | model | model | model |
| 10 | Aromatic >C8-C10 | 9.19E+00 | 3.20E+02 | 6.46E+01 | model | model | model | model | model | model |
| 11 | Aromatic >C10-C12 | 1.46E+01 | 3.21E+01 | 2.45E+01 | model | model | model | model | model | model |
| 12 | Aromatic >C12-C16 | 2.91E+01 | 1.14E+00 | 5.75E+00 | model | model | model | model | model | model |
| 13 | Aromatic >C16-C21 | 8.19E+01 | 5.62E-03 | 6.53E-01 | model | model | model | model | model | model |
| 14 | Aromatic >C21-C35 | 7.30E+02 | 1.61E-06 | 6.61E-03 | model | model | model | model | model | model |
| 15 | Aromatic >C35-C44 | 7.30E+02 | 1.61E-06 | 6.61E-03 | model | model | model | model | model | model |
| 16 | Aromatic and Aliphatic >C44-C | 2.91E+03 | 1.61E-06 | 1.00E-04 | model | model | model | model | model | model |
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Environment Agency

| | Soil-to-water partition coefficient ($cm^3 g^{-1}$) | Vapour pressure (Pa) | Water solubility ($mg L^{-1}$) | Soil-to-plant concentration factor for green vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for root vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for tuber vegetables (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for herbaceous fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for shrub fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) | Soil-to-plant concentration factor for tree fruit (mg $g^{-1}$ plant DW or FW basis over mg $g^{-1}$ DW soil) |
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