附表1OPs分子与铜绿假单胞菌外排泵蛋白、铜绿假单胞菌羧酸酯酶、蚯蚓胆碱酯酶、蜜蜂胆碱酯酶、褐飞虱胆碱酯酶、小菜蛾胆碱酯酶、麦蚜胆碱酯酶及二化螟胆碱酯酶的对接打分值，OPs分子loglow值及BCF值

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Compounds | LibDockScore and Calculated values | | | | | | | | | |
| Dock to 5AZO | Dock to 3CN9 | Dock to WOL31201.1 | Dock to BAE06051.1 | Dock to G9BJC1 | Dock to A0A1L8D6U8 | Dock to A0A2S2PQ23 | Dock to A0A437B2V7 | logkow | BCF |
| 2674-91-1 | 74.284 | 80.610 | 85.883 | 62.453 | 83.701 | 72.756 | 84.124 | 82.343 | 0.550 | 0.462 |
| 31110-62-0 | 82.661 | 65.490 | 68.163 | 63.401 | 64.999 | 62.385 | 74.884 | 67.081 | 1.259 | 0.339 |
| 76960-87-7 | 80.948 | 67.463 | 72.832 | 68.210 | 73.503 | 67.168 | 71.731 | 67.491 | 2.194 | 1.413 |
| 83318-76-7 | 46.862 | 64.609 | 72.102 | 50.913 | 78.637 | 68.427 | 72.799 | 71.644 | 1.463 | 1.430 |
| Acephate | 69.411 | 56.775 | 62.950 | 59.395 | 65.083 | 60.730 | 55.438 | 59.451 | 0.208 | 0.362 |
| Acetoxon | 86.821 | 89.969 | 96.129 | 63.362 | 89.704 | 80.526 | 91.147 | 93.898 | 1.157 | 0.858 |
| Amiton | 78.563 | 86.698 | 94.995 | 60.631 | 97.040 | 79.813 | 98.943 | 93.447 | 1.925 | 1.331 |
| Azamethiphos | 67.090 | 102.645 | 107.326 | 67.068 | 102.175 | 83.035 | 107.528 | 100.499 | 1.416 | 1.045 |
| Azethion | 79.029 | 83.367 | 86.213 | 60.373 | 87.617 | 78.010 | 97.881 | 86.753 | 0.896 | 0.581 |
| Bensulide-Oxon | 108.560 | 110.726 | 121.900 | 84.744 | 130.610 | 101.279 | 108.001 | 127.125 | 2.345 | 0.731 |
| Bomyl | 45.700 | 86.508 | 86.531 | 58.034 | 97.585 | 78.864 | 98.787 | 100.107 | -0.127 | 0.820 |
| Buminafos | 94.163 | 110.480 | 120.767 | 87.125 | 116.872 | 106.991 | 126.901 | 119.032 | 4.050 | 1.433 |
| Butonate | 73.247 | 87.848 | 86.011 | 57.782 | 89.093 | 77.254 | 90.323 | 86.364 | 2.343 | 0.948 |
| Cadusafos | 58.545 | 84.030 | 88.227 | 61.255 | 87.459 | 72.488 | 85.187 | 87.239 | 2.913 | 1.966 |
| Chlorfenvinphos | 59.186 | 84.905 | 91.443 | 59.146 | 95.234 | 86.272 | 102.174 | 96.921 | 3.635 | 1.567 |
| cis-Azodrin | 74.910 | 73.539 | 76.043 | 62.045 | 82.415 | 66.178 | 92.364 | 78.516 | -0.295 | 0.244 |
| cis-Methocrotophos | 94.013 | 80.920 | 91.443 | 77.502 | 94.922 | 80.001 | 93.572 | 89.721 | -0.219 | 0.252 |
| Coumaphos-oxon | 84.836 | 107.858 | 111.308 | 69.927 | 116.167 | 94.303 | 129.285 | 111.690 | 3.016 | 1.636 |
| Crotoxyphos | 98.832 | 96.643 | 104.789 | 87.185 | 111.585 | 95.572 | 115.807 | 109.947 | 2.806 | 0.739 |
| Crufomate | 71.065 | 87.818 | 102.595 | 72.605 | 105.742 | 80.649 | 89.744 | 90.515 | 3.474 | 1.708 |
| Cyanthoate | 101.581 | 88.390 | 101.429 | 77.983 | 104.985 | 81.447 | 100.642 | 101.938 | 0.676 | 0.452 |
| DDVP | 61.832 | 62.677 | 69.154 | 60.470 | 69.768 | 66.929 | 65.915 | 70.292 | 1.623 | 1.200 |
| Demephion-S | 78.976 | 68.638 | 70.987 | 63.618 | 69.108 | 64.306 | 77.609 | 68.391 | 1.157 | 0.754 |
| Demeton-S | 84.746 | 85.629 | 86.147 | 68.958 | 87.428 | 72.446 | 87.178 | 84.830 | 1.849 | 1.893 |
| Demeton-S-methyl | 82.766 | 72.904 | 72.379 | 65.824 | 72.726 | 66.631 | 81.282 | 75.405 | 1.272 | 1.146 |
| Demeton-S-methyl-sulfone | 83.091 | 78.066 | 82.015 | 75.212 | 81.967 | 71.407 | 82.601 | 80.850 | 0.434 | 0.299 |
| Demeton-S-sulfone | 84.456 | 87.729 | 94.347 | 82.190 | 95.442 | 82.339 | 97.554 | 93.524 | 1.775 | 0.360 |
| Dequest-2010 | 83.512 | 54.373 | 65.438 | 54.310 | 65.249 | 59.645 | 58.908 | 63.058 | -1.280 | 0.099 |
| Diamidafos | 68.396 | 74.192 | 80.637 | 63.267 | 79.315 | 75.127 | 89.934 | 77.783 | 0.949 | 0.392 |
| Diazoxon | 72.981 | 91.112 | 100.989 | 40.473 | 108.156 | 83.336 | 110.596 | 106.629 | 1.725 | 1.380 |
| Dicrotophos | 57.357 | 77.749 | 77.581 | 51.488 | 80.059 | 64.198 | 87.503 | 85.248 | -0.384 | 0.221 |
| Diphenprofos | 79.297 | 114.759 | 110.365 | 88.531 | 124.939 | 93.722 | 106.219 | 101.987 | 4.550 | 2.164 |
| DMCP | 76.816 | 79.705 | 86.828 | 49.012 | 80.207 | 66.593 | 82.960 | 79.276 | 2.294 | 2.021 |
| Edifenphos | 85.184 | 100.607 | 106.454 | 71.364 | 104.210 | 67.833 | 114.425 | 110.650 | 3.272 | 1.974 |
| E-Mevinphos | 64.418 | 70.474 | 83.844 | 63.893 | 81.787 | 68.555 | 90.203 | 85.894 | 0.146 | 0.565 |
| Endothion | 93.183 | 93.795 | 95.266 | 75.197 | 94.310 | 83.162 | 98.237 | 96.106 | 0.311 | 0.767 |
| Ethephon | 70.428 | 46.530 | 50.570 | 53.359 | 50.168 | 54.269 | 40.550 | 37.475 | -0.335 | 0.187 |
| Ethion-dioxon | 76.984 | 92.194 | 105.744 | 70.934 | 108.184 | 83.912 | 104.629 | 108.791 | 2.145 | 1.179 |
| Ethoprop | 71.000 | 78.457 | 83.487 | 65.711 | 81.096 | 73.369 | 82.385 | 82.233 | 3.707 | 1.957 |
| Ethyl-hydrogen-1-propylphosphonate | 80.554 | 63.902 | 63.265 | 60.086 | 59.118 | 56.850 | 65.177 | 59.121 | 0.578 | 0.180 |
| Fenamiphos | 78.795 | 92.748 | 103.674 | 64.573 | 106.432 | 81.764 | 111.877 | 108.799 | 3.310 | 1.756 |
| Fenamiphos-sulfone | 72.156 | 97.712 | 103.798 | 71.127 | 115.686 | 95.187 | 113.992 | 112.948 | 1.801 | 0.467 |
| Fenamiphos-sulfoxide | 63.166 | 100.859 | 105.324 | 70.668 | 114.954 | 87.349 | 118.949 | 111.650 | 0.558 | 1.201 |
| Fenthion-oxon | 59.033 | 86.801 | 91.647 | 62.394 | 90.737 | 75.393 | 95.220 | 88.374 | 2.659 | 1.814 |
| Fenthion-oxon-sulfone | 61.713 | 89.446 | 97.620 | 61.088 | 102.002 | 82.396 | 100.981 | 100.398 | 0.766 | 0.397 |
| Fenthion-oxon-sulfoxide | 60.659 | 93.082 | 92.510 | 72.645 | 95.326 | 79.316 | 103.472 | 91.733 | -0.536 | 1.336 |
| Fonofos-oxon | 68.113 | 79.195 | 88.341 | 53.218 | 84.275 | 69.950 | 98.724 | 86.013 | 2.550 | 1.978 |
| Fospirate | 47.443 | 82.138 | 86.670 | 57.103 | 86.986 | 69.011 | 91.387 | 90.143 | 2.974 | 1.946 |
| Fosthiazate | 40.065 | 83.524 | 95.300 | 56.484 | 93.838 | 73.456 | 92.603 | 94.295 | 1.983 | 1.272 |
| Fosthietan | 57.144 | 70.300 | 82.796 | 67.070 | 79.746 | 72.240 | 77.650 | 79.754 | 0.489 | 1.396 |
| Heptenophos | 58.023 | 82.415 | 89.762 | 53.319 | 84.018 | 77.364 | 84.797 | 81.794 | 2.002 | 1.217 |
| Hexylthiofos | 64.793 | 80.640 | 90.154 | 58.699 | 88.740 | 74.607 | 88.529 | 88.490 | 3.040 | 1.588 |
| Imicyafos | 67.937 | 100.985 | 99.110 | 71.992 | 101.244 | 78.896 | 109.275 | 113.664 | 2.443 | 1.238 |
| Inezin | 89.060 | 104.654 | 105.570 | 53.979 | 104.387 | 90.358 | 114.368 | 108.520 | 2.615 | 1.653 |
| Iprobenfos | 86.806 | 94.303 | 99.296 | 82.678 | 101.263 | 84.238 | 96.119 | 96.645 | 3.279 | 0.955 |
| Isomalathion | 80.347 | 100.289 | 101.037 | 68.482 | 102.173 | 86.322 | 101.281 | 107.653 | 2.106 | 0.999 |
| Isosumithion | 45.060 | 77.674 | 83.871 | 64.888 | 91.446 | 57.422 | 78.384 | 89.936 | 2.332 | 1.727 |
| Leptophos-oxon | 58.166 | 96.869 | 106.177 | 70.456 | 105.709 | 78.952 | 113.659 | 114.696 | 4.362 | 2.713 |
| Malaoxon | 62.843 | 93.888 | 99.923 | 69.149 | 102.224 | 90.464 | 106.215 | 103.879 | 1.225 | 0.998 |
| Mephosfolan | 62.524 | 74.312 | 86.168 | 54.486 | 86.770 | 70.694 | 87.472 | 86.144 | 2.369 | 1.462 |
| Methamidophos | 71.140 | 47.279 | 47.330 | 53.775 | 47.514 | 46.429 | 36.083 | 53.104 | -0.119 | 0.793 |
| Methyl-paraoxon | 56.777 | 88.884 | 86.103 | 57.958 | 88.970 | 71.780 | 86.854 | 80.443 | 1.399 | 1.524 |
| Monocrotophos | 65.011 | 72.242 | 79.810 | 69.300 | 79.526 | 70.866 | 90.205 | 81.132 | -0.374 | 0.239 |
| Naled | 53.844 | 72.572 | 70.436 | 62.703 | 73.191 | 65.229 | 71.789 | 70.530 | 1.617 | 1.190 |
| Naphthalophos | 73.660 | 119.083 | 110.791 | 65.684 | 111.823 | 84.529 | 111.898 | 121.097 | 2.166 | 1.315 |
| Omethoate | 83.852 | 72.554 | 80.536 | 64.294 | 77.026 | 68.748 | 76.965 | 75.644 | -0.870 | 0.189 |
| Oxydemeton-methyl | 82.877 | 77.258 | 81.955 | 72.940 | 76.076 | 70.282 | 82.089 | 79.227 | -0.123 | 0.355 |
| Paraoxon | 68.014 | 88.955 | 100.116 | 41.376 | 99.449 | 81.219 | 105.397 | 94.487 | 1.981 | 1.765 |
| Phoratoxon-sulfoxide | 80.030 | 86.648 | 86.052 | 61.792 | 84.346 | 75.327 | 86.484 | 88.308 | 1.373 | 1.157 |
| Phosfolan | 65.180 | 75.212 | 86.028 | 69.051 | 83.278 | 76.025 | 82.278 | 82.893 | 1.248 | 1.150 |
| Phosmetoxon | 65.105 | 106.979 | 102.931 | 68.925 | 101.649 | 85.363 | 108.171 | 108.176 | 1.230 | 0.530 |
| Phosphamidon | 57.329 | 84.449 | 87.181 | 66.124 | 91.507 | 68.283 | 82.592 | 81.930 | 1.741 | 0.398 |
| Profenofos | 72.955 | 86.805 | 99.462 | 62.249 | 94.736 | 79.783 | 107.631 | 100.428 | 3.995 | 2.589 |
| Propaphos | 79.421 | 96.755 | 99.672 | 69.575 | 101.727 | 89.810 | 111.893 | 110.499 | 3.466 | 1.549 |
| Propoxon | 95.844 | 95.491 | 99.270 | 77.060 | 95.885 | 85.475 | 97.276 | 101.362 | 1.543 | 0.917 |
| Pyraclofos | 90.943 | 113.567 | 110.997 | 90.177 | 118.527 | 89.907 | 120.843 | 111.535 | 3.743 | 2.023 |
| Sulprofos-oxon | 78.068 | 92.930 | 100.520 | 67.395 | 102.599 | 76.547 | 108.095 | 99.881 | 3.296 | 2.207 |
| TEPP | 71.409 | 86.251 | 99.743 | 60.482 | 98.485 | 82.722 | 98.645 | 97.792 | 0.689 | 0.581 |
| Terbufos-oxon-sulfone | 67.902 | 90.055 | 93.221 | 32.924 | 97.238 | 77.134 | 90.478 | 89.526 | 2.121 | 0.524 |
| Tetrachlorvinphos-E | 42.030 | 78.984 | 89.740 | 37.702 | 95.830 | 68.825 | 88.802 | 86.429 | 3.098 | 1.641 |
| Tetrachlorvinphos-Z | 56.685 | 79.256 | 84.681 | 54.275 | 98.791 | 70.830 | 96.042 | 92.702 | 3.357 | 1.841 |
| Thionazin-oxon | 66.537 | 75.265 | 91.595 | 75.562 | 93.091 | 77.339 | 94.166 | 90.189 | 0.790 | 0.753 |
| Tribufos | 84.921 | 93.097 | 100.094 | 74.754 | 97.288 | 80.404 | 102.136 | 100.170 | 5.460 | 1.589 |
| Trichlorfon | 48.001 | 65.432 | 76.039 | 45.205 | 73.221 | 68.117 | 65.777 | 65.078 | 0.829 | 0.827 |
| Vamidothion | 98.452 | 92.975 | 94.878 | 70.567 | 95.817 | 78.010 | 92.837 | 94.014 | 0.443 | 0.628 |
| Z-Mevinphos | 57.766 | 76.475 | 76.842 | 56.565 | 81.512 | 66.670 | 86.152 | 85.843 | 0.061 | 0.639 |
| 328-04-1 | 57.111 | 82.541 | 95.130 | 60.238 | 94.853 | 89.631 | 97.094 | 103.083 | 3.748 | 2.243 |
| 333-40-4 | 74.562 | 86.568 | 93.927 | 53.845 | 95.202 | 79.535 | 102.313 | 100.071 | 3.461 | 1.967 |
| 1217-97-6 | 28.432 | 81.991 | 83.701 | 47.507 | 94.115 | 66.126 | 92.855 | 92.322 | 4.046 | 1.807 |
| 2524-04-1 | 58.571 | 53.187 | 57.497 | 76.047 | 57.570 | 55.109 | 55.418 | 57.552 | 3.295 | 1.978 |
| 2665-30-7 | 70.235 | 89.428 | 102.223 | 52.728 | 107.153 | 79.743 | 107.450 | 112.856 | 3.483 | 2.327 |
| 2668-92-0 | 58.820 | 113.222 | 108.583 | 74.699 | 109.701 | 85.587 | 113.537 | 118.097 | 3.667 | 1.505 |
| 2703-13-1 | 65.871 | 82.514 | 84.733 | 47.290 | 85.465 | 72.010 | 90.597 | 84.760 | 3.949 | 2.473 |
| 2782-70-9 | 97.784 | 102.609 | 109.829 | 80.437 | 109.963 | 86.458 | 87.972 | 106.180 | 4.540 | 1.998 |
| 2953-29-9 | 64.812 | 47.828 | 52.096 | 58.927 | 51.295 | 50.003 | 43.622 | 50.304 | 2.689 | 1.432 |
| 5840-95-9 | 103.807 | 83.156 | 90.600 | 80.437 | 92.895 | 78.932 | 91.240 | 88.985 | 2.260 | 0.852 |
| 32345-29-2 | 65.928 | 78.144 | 91.444 | 60.537 | 91.999 | 74.121 | 92.294 | 91.552 | 3.394 | 2.168 |
| Acethion | 93.315 | 81.711 | 93.122 | 65.394 | 90.380 | 80.409 | 99.286 | 90.045 | 3.086 | 1.335 |
| Akton | 49.992 | 82.473 | 82.161 | 72.653 | 89.593 | 77.273 | 108.809 | 98.242 | 4.680 | 2.876 |
| Amidithion | 113.941 | 85.381 | 88.605 | 75.467 | 89.555 | 79.562 | 86.879 | 87.853 | 0.925 | 0.280 |
| Aminofenitrothion | 45.442 | 76.970 | 81.754 | 58.374 | 86.778 | 77.280 | 89.577 | 84.969 | 2.362 | 1.389 |
| Amiprofos-methyl | 67.304 | 91.422 | 95.600 | 64.183 | 104.257 | 78.128 | 115.655 | 106.257 | 3.380 | 1.869 |
| Anilofos | 60.760 | 94.293 | 102.936 | 72.426 | 101.691 | 83.611 | 107.125 | 91.202 | 3.867 | 1.626 |
| Aspon | 71.862 | 100.082 | 113.611 | 74.205 | 108.453 | 87.459 | 119.251 | 117.310 | 4.450 | 1.543 |
| Athidathion | 81.696 | 92.422 | 102.153 | 70.938 | 96.824 | 89.080 | 107.305 | 100.640 | 3.163 | 1.032 |
| Azinphos-ethyl | 73.403 | 111.855 | 119.040 | 79.603 | 114.727 | 91.423 | 119.876 | 120.486 | 3.348 | 1.511 |
| Azinphos-methyl | 44.622 | 105.082 | 104.425 | 65.596 | 104.441 | 86.626 | 106.528 | 105.445 | 2.676 | 1.332 |
| Azothoate | 97.884 | 87.362 | 93.835 | 96.935 | 114.029 | 71.679 | 89.041 | 111.734 | 5.069 | 2.099 |
| Bensulide | 90.717 | 114.483 | 121.739 | 89.693 | 130.778 | 99.705 | 116.968 | 109.911 | 3.813 | 0.654 |
| Bromophos | 52.825 | 76.708 | 82.335 | 59.778 | 87.179 | 67.122 | 93.445 | 85.144 | 4.778 | 2.754 |
| Bromophos-ethyl | 57.757 | 82.038 | 90.118 | 62.192 | 101.308 | 81.173 | 106.692 | 99.570 | 5.189 | 3.053 |
| Butamifos | 72.612 | 95.043 | 104.900 | 61.553 | 107.953 | 83.504 | 122.456 | 123.109 | 4.192 | 2.216 |
| Butathiofos | 77.139 | 83.130 | 103.216 | 77.044 | 102.945 | 86.047 | 105.466 | 102.370 | 3.921 | 1.778 |
| carbophenothion | 90.352 | 93.984 | 100.951 | 68.606 | 98.277 | 83.515 | 98.508 | 100.231 | 5.127 | 2.461 |
| Carbophenothion-methyl | 85.965 | 86.049 | 92.379 | 81.392 | 86.538 | 79.986 | 95.287 | 86.455 | 4.760 | 2.199 |
| Chlorethoxyphos | 49.556 | 73.884 | 83.034 | 57.140 | 84.071 | 66.512 | 85.054 | 86.292 | 4.775 | 2.581 |
| Chlormephos | 59.858 | 60.075 | 69.138 | 48.796 | 67.838 | 63.874 | 76.723 | 67.300 | 3.537 | 2.383 |
| Chlorphoxim | 73.243 | 97.131 | 108.059 | 73.903 | 115.107 | 89.494 | 119.636 | 112.200 | 4.432 | 2.625 |
| Chlorprazophos | 77.574 | 102.492 | 109.322 | 76.652 | 115.091 | 92.571 | 118.232 | 116.715 | 3.670 | 2.058 |
| Chlorpyrifos | 73.899 | 79.998 | 87.385 | 58.430 | 99.529 | 73.050 | 107.228 | 103.934 | 4.646 | 2.848 |
| Chlorpyrifos-methyl | 34.971 | 75.334 | 75.000 | 58.747 | 81.922 | 70.704 | 92.022 | 84.830 | 4.073 | 2.534 |
| Chlorthion | 79.592 | 81.398 | 86.628 | 55.963 | 94.707 | 63.667 | 99.090 | 95.322 | 3.466 | 2.049 |
| Chlorthiophos I | 44.379 | 80.616 | 101.666 | 63.661 | 100.609 | 85.052 | 113.191 | 102.005 | 4.903 | 2.790 |
| Chlorthiophos II | 41.928 | 89.333 | 97.718 | 58.624 | 100.474 | 80.134 | 116.143 | 105.405 | 4.945 | 2.827 |
| Chlorthiophos III | 48.355 | 90.979 | 93.761 | 68.627 | 101.759 | 81.410 | 113.317 | 111.949 | 4.919 | 2.790 |
| Coumaphos | 79.246 | 106.565 | 114.624 | 58.672 | 112.042 | 95.730 | 115.313 | 104.573 | 3.959 | 2.080 |
| Coumithioate | 81.204 | 114.946 | 118.606 | 81.937 | 114.895 | 100.521 | 125.221 | 101.934 | 4.000 | 2.274 |
| Cyanofenphos | 70.165 | 92.822 | 104.112 | 71.021 | 118.586 | 93.849 | 120.270 | 119.612 | 4.241 | 2.363 |
| Cyanophos | 63.943 | 75.452 | 80.231 | 62.343 | 82.675 | 70.472 | 86.777 | 83.863 | 2.570 | 1.415 |
| Cythioate | 43.243 | 79.828 | 97.511 | 77.557 | 98.080 | 68.593 | 98.064 | 84.474 | 1.633 | 0.617 |
| Demephion-O | 78.690 | 64.438 | 69.174 | 59.583 | 68.340 | 64.940 | 74.876 | 68.991 | 2.928 | 1.190 |
| Demeton-O | 87.611 | 76.289 | 83.624 | 62.483 | 85.795 | 73.160 | 97.700 | 84.727 | 3.441 | 2.236 |
| Demeton-O-methyl | 82.812 | 73.050 | 73.930 | 61.875 | 73.178 | 68.897 | 82.390 | 73.849 | 3.027 | 1.478 |
| Desbromoleptophos | 39.285 | 99.430 | 104.309 | 51.958 | 88.285 | 46.755 | 111.583 | 114.913 | 5.198 | 2.861 |
| Desmethylfenitrothion | 37.012 | 71.804 | 73.432 | 59.141 | 88.849 | 59.787 | 74.104 | 92.222 | 2.207 | 1.366 |
| Dialifor | 73.155 | 111.047 | 117.092 | 79.564 | 107.092 | 96.528 | 129.336 | 121.844 | 3.917 | 1.286 |
| Diazinon | 65.885 | 86.939 | 98.795 | 64.806 | 105.042 | 82.331 | 106.664 | 101.302 | 3.500 | 1.750 |
| Dichlofenthion | 57.037 | 80.053 | 90.471 | 61.712 | 95.216 | 79.426 | 104.094 | 101.965 | 4.634 | 2.730 |
| Dimethoate | 84.145 | 71.466 | 77.904 | 63.296 | 77.259 | 66.039 | 72.858 | 76.221 | 0.854 | 0.191 |
| Dimethoate-ethyl | 93.997 | 77.264 | 79.773 | 63.306 | 82.238 | 70.935 | 83.292 | 84.159 | 1.047 | 0.230 |
| Dimethyl chlorothiophosphate | 55.844 | 42.543 | 47.880 | 42.223 | 45.992 | 43.618 | 44.897 | 46.016 | 2.394 | 1.163 |
| Dioxabenzofos | 40.319 | 73.561 | 82.835 | 66.164 | 77.754 | 70.527 | 83.843 | 79.367 | 2.542 | 1.464 |
| Dioxathion | 91.020 | 109.702 | 118.718 | 75.252 | 103.457 | 85.761 | 91.718 | 105.553 | 4.184 | 2.243 |
| Disulfoton | 85.976 | 76.083 | 80.798 | 62.776 | 83.494 | 71.666 | 85.456 | 84.690 | 3.663 | 2.485 |
| Disulfoton sulfone | 84.169 | 82.330 | 93.775 | 71.059 | 90.790 | 80.758 | 99.414 | 98.989 | 2.157 | 0.280 |
| Disulfoton sulfone oxygen analog | 84.652 | 78.913 | 89.998 | 76.048 | 80.977 | 68.812 | 78.176 | 84.438 | 1.267 | 0.185 |
| Disulfoton sulfoxide | 89.826 | 80.563 | 83.662 | 70.909 | 89.951 | 76.355 | 93.763 | 94.250 | 2.109 | 2.125 |
| Ditalimfos | 58.785 | 100.702 | 109.081 | 54.488 | 107.437 | 86.782 | 115.625 | 115.218 | 3.175 | 1.033 |
| EPBP | 64.890 | 89.645 | 108.585 | 71.749 | 107.564 | 86.058 | 116.805 | 117.350 | 5.453 | 3.118 |
| Ethion | 74.394 | 90.466 | 108.279 | 74.845 | 105.628 | 80.402 | 99.612 | 101.892 | 5.027 | 1.894 |
| Ethion monooxon | 69.255 | 90.866 | 107.457 | 71.467 | 105.973 | 90.149 | 108.005 | 109.337 | 3.767 | 1.509 |
| Etrimfos | 62.452 | 90.807 | 99.626 | 37.968 | 101.663 | 83.125 | 114.458 | 101.454 | 3.354 | 1.384 |
| Famphur | 54.086 | 93.138 | 101.748 | 75.631 | 107.313 | 61.351 | 47.319 | 79.443 | 2.363 | 0.730 |
| Fenitrothion | 75.170 | 80.863 | 80.226 | 56.174 | 94.388 | 62.651 | 98.908 | 81.695 | 3.249 | 1.833 |
| Fensulfothion | 74.917 | 85.599 | 99.331 | 73.870 | 103.261 | 88.449 | 105.058 | 100.579 | 1.005 | 2.096 |
| Fenthion | 67.890 | 82.781 | 97.146 | 57.059 | 88.977 | 74.071 | 93.499 | 88.882 | 3.896 | 2.208 |
| Fenthion sulfone | 71.270 | 88.687 | 91.123 | 72.273 | 101.440 | 66.900 | 88.648 | 81.839 | 2.417 | 0.505 |
| Fenthion sulfoxide | 57.641 | 82.091 | 89.550 | 66.590 | 96.001 | 74.529 | 87.849 | 82.922 | 0.550 | 1.936 |
| Formothion | 89.454 | 78.448 | 82.660 | 70.893 | 83.870 | 73.157 | 84.035 | 84.989 | 1.461 | 0.203 |
| Fosmethilan | 55.039 | 103.662 | 109.008 | 74.234 | 103.029 | 82.232 | 110.736 | 112.781 | 4.150 | 1.474 |
| Iodofenfos | 62.017 | 76.119 | 82.323 | 39.280 | 82.757 | 69.230 | 91.653 | 89.682 | 4.955 | 2.724 |
| IPSP | 87.134 | 84.042 | 88.395 | 65.869 | 86.740 | 76.784 | 94.429 | 93.124 | 2.246 | 1.414 |
| Isazophos-methyl | 73.485 | 81.127 | 86.323 | 58.307 | 89.398 | 62.397 | 86.942 | 83.729 | 2.574 | 1.774 |
| Isocarbophos | 46.498 | 94.648 | 99.549 | 58.076 | 102.200 | 73.896 | 109.944 | 94.636 | 2.677 | 1.215 |
| Isochlorthion | 67.083 | 83.339 | 93.064 | 64.772 | 86.570 | 64.734 | 98.965 | 84.722 | 3.628 | 1.935 |
| Isofenphos | 82.056 | 97.704 | 104.884 | 69.515 | 114.483 | 96.280 | 130.795 | 117.260 | 3.886 | 1.843 |
| Isothioate | 86.766 | 72.798 | 76.677 | 64.436 | 77.370 | 68.538 | 76.314 | 77.524 | 3.510 | 1.948 |
| Isoxathion | 101.329 | 100.007 | 111.331 | 86.451 | 117.671 | 92.185 | 111.724 | 121.171 | 3.905 | 2.189 |
| Leptophos | 56.381 | 91.500 | 102.710 | 71.928 | 96.329 | 91.561 | 113.594 | 105.621 | 5.905 | 3.303 |
| Lythidathion | 78.488 | 87.652 | 100.083 | 64.295 | 94.824 | 81.224 | 107.203 | 103.395 | 3.133 | 0.791 |
| Malathion | 68.413 | 89.462 | 84.453 | 69.451 | 103.761 | 84.971 | 105.148 | 100.520 | 2.396 | 1.066 |
| Malathion dicarboxylic acid | 67.707 | 97.929 | 106.666 | 54.926 | 90.684 | 76.895 | 84.100 | 82.807 | 0.965 | 0.145 |
| Mecarbam | 68.647 | 91.272 | 99.026 | 71.093 | 98.971 | 89.050 | 112.731 | 103.172 | 2.528 | 0.446 |
| Menazon | 82.873 | 83.072 | 101.522 | 75.465 | 98.310 | 83.737 | 92.569 | 90.007 | 1.125 | 0.372 |
| Merpofos | 62.919 | 84.633 | 91.401 | 59.187 | 97.442 | 76.513 | 101.762 | 100.326 | 3.646 | 2.330 |
| Methacrifos | 79.283 | 78.444 | 83.331 | 69.736 | 84.509 | 68.303 | 84.257 | 87.734 | 2.381 | 1.126 |
| Methidathion | 84.464 | 86.112 | 91.091 | 63.420 | 91.396 | 82.849 | 98.903 | 99.278 | 2.175 | 0.709 |
| Methyl parathion | 72.718 | 81.188 | 88.250 | 54.606 | 80.461 | 67.954 | 93.542 | 80.880 | 3.006 | 1.853 |
| Methyl phenkapton | 83.309 | 94.356 | 96.642 | 62.970 | 94.337 | 80.177 | 102.632 | 96.946 | 5.135 | 2.348 |
| Methylisocyanothion | 72.332 | 79.460 | 88.841 | 60.478 | 88.393 | 72.759 | 96.277 | 92.552 | 3.471 | 1.937 |
| Miral | 69.989 | 85.170 | 99.695 | 65.317 | 103.266 | 78.828 | 101.237 | 101.904 | 3.181 | 2.199 |
| Morphothion | 104.342 | 88.143 | 92.897 | 75.737 | 89.061 | 82.415 | 95.882 | 93.183 | 1.089 | 0.297 |
| Parathion | 69.983 | 86.958 | 99.023 | 66.224 | 86.561 | 82.921 | 100.775 | 91.844 | 3.516 | 2.065 |
| Phenkapton | 78.390 | 99.308 | 102.407 | 68.023 | 101.417 | 79.409 | 109.963 | 108.748 | 5.491 | 2.581 |
| Phenthoate | 55.075 | 93.654 | 107.348 | 62.892 | 102.391 | 91.511 | 107.500 | 106.547 | 3.526 | 1.820 |
| Phenthoate-acid | 32.739 | 93.247 | 96.814 | 55.815 | 93.158 | 80.336 | 96.695 | 93.719 | 1.834 | 0.628 |
| Phorate | 78.462 | 78.865 | 89.648 | 55.808 | 78.279 | 71.760 | 82.157 | 78.865 | 3.719 | 1.916 |
| Phorate sulfone | 84.914 | 75.766 | 87.797 | 61.535 | 84.769 | 73.058 | 87.734 | 87.278 | 2.343 | 0.405 |
| Phorate sulfoxide | 81.868 | 73.314 | 81.555 | 60.029 | 83.215 | 75.255 | 83.915 | 86.376 | 2.074 | 1.737 |
| Phosacetim | 56.867 | 94.615 | 115.301 | 78.351 | 120.444 | 73.828 | 101.293 | 113.468 | 3.775 | 2.637 |
| Phosalone | 85.595 | 110.849 | 119.828 | 75.800 | 118.977 | 89.881 | 119.867 | 117.140 | 4.080 | 1.669 |
| Phosmet | 53.803 | 106.867 | 104.567 | 75.888 | 101.463 | 86.650 | 107.969 | 108.858 | 2.768 | 0.614 |
| Phosnichlor | 66.668 | 83.140 | 88.609 | 55.134 | 96.186 | 64.725 | 95.236 | 88.037 | 3.485 | 2.040 |
| Phostebupirim | 52.589 | 85.746 | 103.644 | 87.139 | 109.370 | 89.498 | 105.382 | 102.330 | 4.171 | 1.926 |
| Phoxim | 73.571 | 97.793 | 112.976 | 88.124 | 115.624 | 89.662 | 115.175 | 117.481 | 4.290 | 2.736 |
| Phoxim-methyl | 36.876 | 90.735 | 104.184 | 83.864 | 105.909 | 82.049 | 103.595 | 102.886 | 3.761 | 2.288 |
| Piperophos | 82.808 | 104.920 | 107.948 | 73.339 | 113.663 | 94.674 | 116.958 | 113.805 | 3.753 | 0.579 |
| Pirimiphos ethyl | 79.987 | 90.835 | 105.863 | 84.526 | 115.959 | 80.706 | 113.742 | 111.180 | 4.358 | 1.777 |
| Pirimiphos-methyl | 64.385 | 89.486 | 99.228 | 75.918 | 108.738 | 80.492 | 102.322 | 98.508 | 3.922 | 1.432 |
| Primidophos | 57.498 | 90.099 | 105.193 | 71.953 | 118.889 | 81.981 | 116.116 | 101.011 | 3.270 | 1.547 |
| Propetamphos | 69.562 | 74.347 | 84.994 | 57.141 | 93.733 | 67.955 | 92.804 | 94.088 | 3.032 | 0.815 |
| Prothidathion | 87.410 | 97.543 | 110.434 | 77.215 | 110.725 | 93.406 | 110.416 | 107.617 | 3.819 | 1.236 |
| Prothiofos | 57.712 | 85.622 | 91.153 | 60.826 | 88.548 | 76.937 | 104.018 | 99.582 | 4.882 | 2.898 |
| Prothion | 98.792 | 86.897 | 96.495 | 76.767 | 94.975 | 80.686 | 97.865 | 100.109 | 3.327 | 1.481 |
| Prothoate | 105.545 | 83.117 | 93.275 | 65.222 | 95.053 | 80.614 | 92.134 | 97.941 | 2.185 | 0.341 |
| Pyrazophos | 85.092 | 115.009 | 110.361 | 83.048 | 108.576 | 94.124 | 92.785 | 73.082 | 3.427 | 1.632 |
| Pyridiphenthion | 72.446 | 107.925 | 109.297 | 69.946 | 117.359 | 99.112 | 125.572 | 123.229 | 2.918 | 0.903 |
| Quinalphos | 74.386 | 95.847 | 97.944 | 70.952 | 111.509 | 85.556 | 114.564 | 114.552 | 3.593 | 1.881 |
| Quinalphos-methyl | 70.035 | 91.417 | 93.109 | 86.573 | 97.125 | 61.409 | 96.690 | 100.254 | 3.168 | 1.446 |
| Quinitofos | 53.038 | 103.974 | 120.327 | 71.266 | 110.238 | 88.086 | 132.757 | 131.478 | 4.222 | 2.286 |
| Quinothion | 68.867 | 97.557 | 103.215 | 64.575 | 110.842 | 87.644 | 122.628 | 117.532 | 4.104 | 2.002 |
| Ronnel | 63.260 | 78.107 | 84.124 | 62.767 | 84.795 | 66.229 | 95.736 | 83.724 | 4.663 | 2.743 |
| Sophamide | 100.243 | 82.840 | 87.020 | 65.499 | 82.599 | 79.298 | 86.805 | 85.705 | 0.946 | 0.229 |
| Sulfotep | 65.686 | 82.104 | 91.730 | 63.845 | 92.626 | 77.138 | 98.687 | 98.482 | 3.929 | 1.977 |
| Sulprofos | 74.664 | 93.021 | 92.730 | 71.318 | 94.481 | 82.827 | 106.924 | 101.058 | 4.810 | 2.550 |
| Temephos | 58.461 | 117.509 | 109.230 | 83.248 | 117.981 | 80.871 | 76.180 | 108.686 | 5.334 | 1.964 |
| Temephos sulfoxide | 89.725 | 102.931 | 84.030 | 83.463 | 130.688 | 79.715 | 125.428 | 90.962 | 2.055 | 1.970 |
| Terbufos | 76.153 | 79.689 | 94.127 | 58.635 | 87.131 | 70.487 | 86.922 | 83.963 | 4.575 | 2.198 |
| Terbufos sulfone | 66.987 | 80.614 | 92.374 | 49.529 | 91.165 | 74.796 | 92.613 | 90.356 | 2.569 | 0.741 |
| Terbufos sulfoxide | 69.751 | 78.874 | 86.862 | 63.125 | 87.155 | 73.890 | 89.255 | 91.305 | 1.864 | 2.115 |
| Thiometon | 79.771 | 67.870 | 74.684 | 62.985 | 72.205 | 65.797 | 76.217 | 74.864 | 3.060 | 2.116 |
| Thionazin | 68.158 | 73.151 | 85.416 | 54.680 | 92.065 | 75.690 | 93.047 | 90.958 | 2.249 | 1.701 |
| Tolclofos-methyl | 39.553 | 67.296 | 69.279 | 54.778 | 81.226 | 62.371 | 84.234 | 81.723 | 4.287 | 2.524 |
| Triazofos | 109.683 | 99.238 | 111.256 | 95.023 | 117.456 | 90.866 | 120.015 | 121.025 | 3.132 | 1.731 |
| Trichloronat | 45.722 | 86.313 | 87.587 | 61.757 | 91.641 | 75.961 | 103.219 | 97.974 | 5.081 | 3.105 |

附表2OPs分子与铜绿假单胞菌外排泵蛋白、铜绿假单胞菌羧酸酯酶、蚯蚓胆碱酯酶、蜜蜂胆碱酯酶、褐飞虱胆碱酯酶、小菜蛾胆碱酯酶、麦蚜胆碱酯酶及二化螟胆碱酯酶的对接打分值以及OPs分子loglow值和BCF值的标准化数值

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Compounds | Normalized values | | | | | | | | | |
| Dock to 5AZO | Dock to 3CN9 | Dock to WOL31201.1 | Dock to BAE06051.1 | Dock to G9BJC1 | Dock to A0A1L8D6U8 | Dock to A0A2S2PQ23 | Dock to A0A437B2V7 | logkow | BCF |
| 2674-91-1 | 0.464 | 0.497 | 0.517 | 0.461 | 0.555 | 0.540 | 0.503 | 0.523 | 0.255 | 0.113 |
| 31110-62-0 | 0.366 | 0.300 | 0.279 | 0.476 | 0.776 | 0.704 | 0.599 | 0.685 | 0.353 | 0.075 |
| 76960-87-7 | 0.386 | 0.326 | 0.342 | 0.551 | 0.676 | 0.628 | 0.631 | 0.681 | 0.484 | 0.410 |
| 83318-76-7 | 0.784 | 0.288 | 0.332 | 0.281 | 0.615 | 0.609 | 0.620 | 0.637 | 0.382 | 0.415 |
| Acephate | 0.521 | 0.186 | 0.209 | 0.414 | 0.775 | 0.730 | 0.800 | 0.766 | 0.207 | 0.082 |
| Acetoxon | 0.317 | 0.620 | 0.654 | 0.476 | 0.484 | 0.418 | 0.430 | 0.400 | 0.339 | 0.237 |
| Amiton | 0.414 | 0.577 | 0.639 | 0.433 | 0.398 | 0.429 | 0.350 | 0.405 | 0.446 | 0.385 |
| Azamethiphos | 0.548 | 0.785 | 0.805 | 0.533 | 0.337 | 0.378 | 0.261 | 0.330 | 0.375 | 0.295 |
| Azethion | 0.408 | 0.533 | 0.521 | 0.429 | 0.509 | 0.457 | 0.361 | 0.476 | 0.303 | 0.150 |
| Bensulide-Oxon | 0.063 | 0.891 | 1.000 | 0.810 | 0.002 | 0.090 | 0.256 | 0.046 | 0.505 | 0.197 |
| Bomyl | 0.798 | 0.574 | 0.526 | 0.392 | 0.391 | 0.444 | 0.351 | 0.334 | 0.160 | 0.225 |
| Buminafos | 0.231 | 0.888 | 0.985 | 0.847 | 0.164 | 0.000 | 0.061 | 0.132 | 0.742 | 0.416 |
| Butonate | 0.476 | 0.592 | 0.519 | 0.388 | 0.492 | 0.469 | 0.439 | 0.480 | 0.504 | 0.265 |
| Cadusafos | 0.648 | 0.542 | 0.548 | 0.443 | 0.511 | 0.544 | 0.492 | 0.471 | 0.584 | 0.583 |
| Chlorfenvinphos | 0.640 | 0.553 | 0.592 | 0.410 | 0.419 | 0.327 | 0.316 | 0.368 | 0.684 | 0.458 |
| cis-Azodrin | 0.456 | 0.405 | 0.385 | 0.455 | 0.570 | 0.644 | 0.418 | 0.563 | 0.137 | 0.045 |
| cis-Methocrotophos | 0.233 | 0.501 | 0.592 | 0.696 | 0.423 | 0.426 | 0.405 | 0.444 | 0.148 | 0.048 |
| Coumaphos-oxon | 0.340 | 0.853 | 0.858 | 0.578 | 0.172 | 0.200 | 0.036 | 0.211 | 0.598 | 0.480 |
| Crotoxyphos | 0.177 | 0.707 | 0.771 | 0.848 | 0.226 | 0.180 | 0.175 | 0.229 | 0.569 | 0.200 |
| Crufomate | 0.501 | 0.592 | 0.741 | 0.620 | 0.295 | 0.416 | 0.445 | 0.436 | 0.662 | 0.502 |
| Cyanthoate | 0.145 | 0.599 | 0.725 | 0.704 | 0.304 | 0.403 | 0.332 | 0.314 | 0.272 | 0.110 |
| DDVP | 0.609 | 0.263 | 0.293 | 0.430 | 0.720 | 0.632 | 0.691 | 0.651 | 0.404 | 0.344 |
| Demephion-S | 0.409 | 0.341 | 0.317 | 0.480 | 0.727 | 0.674 | 0.570 | 0.671 | 0.339 | 0.204 |
| Demeton-S | 0.341 | 0.563 | 0.521 | 0.563 | 0.511 | 0.545 | 0.471 | 0.496 | 0.435 | 0.560 |
| Demeton-S-methyl | 0.365 | 0.397 | 0.336 | 0.514 | 0.685 | 0.637 | 0.532 | 0.597 | 0.355 | 0.327 |
| Demeton-S-methyl-sulfone | 0.361 | 0.464 | 0.465 | 0.661 | 0.576 | 0.562 | 0.519 | 0.539 | 0.239 | 0.062 |
| Demeton-S-sulfone | 0.345 | 0.590 | 0.631 | 0.770 | 0.417 | 0.389 | 0.364 | 0.404 | 0.425 | 0.081 |
| Dequest-2010 | 0.356 | 0.155 | 0.243 | 0.334 | 0.773 | 0.747 | 0.764 | 0.728 | 0.000 | 0.000 |
| Diamidafos | 0.533 | 0.413 | 0.447 | 0.474 | 0.607 | 0.503 | 0.443 | 0.571 | 0.310 | 0.091 |
| Diazoxon | 0.479 | 0.635 | 0.720 | 0.118 | 0.267 | 0.373 | 0.229 | 0.264 | 0.418 | 0.400 |
| Dicrotophos | 0.662 | 0.460 | 0.406 | 0.290 | 0.598 | 0.675 | 0.468 | 0.492 | 0.125 | 0.038 |
| Diphenprofos | 0.405 | 0.944 | 0.845 | 0.869 | 0.069 | 0.209 | 0.275 | 0.314 | 0.811 | 0.645 |
| DMCP | 0.434 | 0.486 | 0.530 | 0.251 | 0.596 | 0.637 | 0.515 | 0.555 | 0.497 | 0.600 |
| Edifenphos | 0.336 | 0.759 | 0.793 | 0.601 | 0.313 | 0.618 | 0.190 | 0.222 | 0.634 | 0.585 |
| E-Mevinphos | 0.579 | 0.365 | 0.490 | 0.484 | 0.578 | 0.607 | 0.440 | 0.485 | 0.198 | 0.145 |
| Endothion | 0.243 | 0.670 | 0.643 | 0.660 | 0.430 | 0.376 | 0.357 | 0.376 | 0.221 | 0.208 |
| Ethephon | 0.509 | 0.052 | 0.043 | 0.319 | 0.951 | 0.832 | 0.954 | 1.000 | 0.132 | 0.027 |
| Ethion-dioxon | 0.432 | 0.649 | 0.783 | 0.594 | 0.266 | 0.364 | 0.291 | 0.241 | 0.477 | 0.337 |
| Ethoprop | 0.502 | 0.469 | 0.485 | 0.512 | 0.586 | 0.531 | 0.521 | 0.524 | 0.694 | 0.580 |
| Ethyl-hydrogen-1-propylphosphonate | 0.390 | 0.279 | 0.214 | 0.424 | 0.845 | 0.791 | 0.699 | 0.770 | 0.259 | 0.025 |
| Fenamiphos | 0.411 | 0.656 | 0.756 | 0.494 | 0.287 | 0.398 | 0.216 | 0.241 | 0.639 | 0.517 |
| Fenamiphos-sulfone | 0.489 | 0.721 | 0.757 | 0.597 | 0.178 | 0.186 | 0.194 | 0.197 | 0.429 | 0.115 |
| Fenamiphos-sulfoxide | 0.594 | 0.762 | 0.778 | 0.590 | 0.187 | 0.310 | 0.143 | 0.211 | 0.256 | 0.344 |
| Fenthion-oxon | 0.642 | 0.578 | 0.594 | 0.460 | 0.472 | 0.499 | 0.388 | 0.459 | 0.548 | 0.535 |
| Fenthion-oxon-sulfone | 0.611 | 0.613 | 0.674 | 0.440 | 0.339 | 0.388 | 0.329 | 0.331 | 0.285 | 0.093 |
| Fenthion-oxon-sulfoxide | 0.623 | 0.660 | 0.606 | 0.621 | 0.418 | 0.437 | 0.303 | 0.423 | 0.103 | 0.386 |
| Fonofos-oxon | 0.536 | 0.479 | 0.550 | 0.317 | 0.548 | 0.585 | 0.352 | 0.484 | 0.533 | 0.586 |
| Fospirate | 0.778 | 0.517 | 0.528 | 0.378 | 0.516 | 0.599 | 0.428 | 0.440 | 0.592 | 0.577 |
| Fosthiazate | 0.864 | 0.535 | 0.643 | 0.368 | 0.436 | 0.529 | 0.415 | 0.396 | 0.454 | 0.366 |
| Fosthietan | 0.664 | 0.363 | 0.476 | 0.533 | 0.602 | 0.548 | 0.570 | 0.550 | 0.246 | 0.405 |
| Heptenophos | 0.654 | 0.521 | 0.569 | 0.319 | 0.552 | 0.468 | 0.496 | 0.529 | 0.457 | 0.349 |
| Hexylthiofos | 0.575 | 0.498 | 0.574 | 0.403 | 0.496 | 0.511 | 0.457 | 0.457 | 0.601 | 0.465 |
| Imicyafos | 0.538 | 0.764 | 0.694 | 0.610 | 0.348 | 0.443 | 0.243 | 0.190 | 0.518 | 0.355 |
| Inezin | 0.291 | 0.811 | 0.781 | 0.329 | 0.311 | 0.262 | 0.190 | 0.244 | 0.542 | 0.485 |
| Iprobenfos | 0.317 | 0.676 | 0.697 | 0.777 | 0.348 | 0.359 | 0.379 | 0.371 | 0.635 | 0.267 |
| Isomalathion | 0.393 | 0.754 | 0.720 | 0.555 | 0.337 | 0.326 | 0.326 | 0.253 | 0.471 | 0.281 |
| Isosumithion | 0.806 | 0.459 | 0.490 | 0.499 | 0.464 | 0.782 | 0.562 | 0.442 | 0.503 | 0.508 |
| Leptophos-oxon | 0.652 | 0.710 | 0.789 | 0.586 | 0.296 | 0.442 | 0.198 | 0.179 | 0.785 | 0.816 |
| Malaoxon | 0.598 | 0.671 | 0.705 | 0.566 | 0.337 | 0.261 | 0.275 | 0.294 | 0.349 | 0.281 |
| Mephosfolan | 0.601 | 0.415 | 0.521 | 0.337 | 0.519 | 0.573 | 0.468 | 0.482 | 0.508 | 0.425 |
| Methamidophos | 0.501 | 0.062 | 0.000 | 0.326 | 0.982 | 0.956 | 1.000 | 0.834 | 0.162 | 0.217 |
| Methyl-paraoxon | 0.669 | 0.605 | 0.520 | 0.391 | 0.493 | 0.556 | 0.475 | 0.543 | 0.373 | 0.445 |
| Monocrotophos | 0.572 | 0.388 | 0.436 | 0.568 | 0.604 | 0.570 | 0.440 | 0.536 | 0.126 | 0.044 |
| Naled | 0.703 | 0.392 | 0.310 | 0.465 | 0.679 | 0.659 | 0.631 | 0.648 | 0.403 | 0.341 |
| Naphthalophos | 0.471 | 1.000 | 0.851 | 0.512 | 0.224 | 0.354 | 0.216 | 0.110 | 0.480 | 0.379 |
| Omethoate | 0.352 | 0.392 | 0.445 | 0.490 | 0.634 | 0.603 | 0.577 | 0.594 | 0.057 | 0.028 |
| Oxydemeton-methyl | 0.363 | 0.454 | 0.464 | 0.625 | 0.645 | 0.579 | 0.524 | 0.556 | 0.161 | 0.080 |
| Paraoxon | 0.537 | 0.606 | 0.708 | 0.132 | 0.370 | 0.407 | 0.283 | 0.394 | 0.454 | 0.520 |
| Phoratoxon-sulfoxide | 0.397 | 0.576 | 0.519 | 0.451 | 0.548 | 0.500 | 0.479 | 0.459 | 0.369 | 0.330 |
| Phosfolan | 0.570 | 0.427 | 0.519 | 0.564 | 0.560 | 0.489 | 0.522 | 0.517 | 0.352 | 0.328 |
| Phosmetoxon | 0.571 | 0.842 | 0.746 | 0.562 | 0.344 | 0.341 | 0.254 | 0.248 | 0.349 | 0.135 |
| Phosphamidon | 0.662 | 0.548 | 0.534 | 0.519 | 0.463 | 0.611 | 0.519 | 0.527 | 0.420 | 0.093 |
| Profenofos | 0.479 | 0.578 | 0.699 | 0.458 | 0.425 | 0.429 | 0.260 | 0.330 | 0.734 | 0.777 |
| Propaphos | 0.404 | 0.708 | 0.702 | 0.573 | 0.343 | 0.271 | 0.216 | 0.223 | 0.660 | 0.452 |
| Propoxon | 0.212 | 0.692 | 0.697 | 0.690 | 0.412 | 0.340 | 0.367 | 0.320 | 0.393 | 0.255 |
| Pyraclofos | 0.269 | 0.928 | 0.854 | 0.894 | 0.144 | 0.270 | 0.123 | 0.212 | 0.699 | 0.600 |
| Sulprofos-oxon | 0.420 | 0.658 | 0.713 | 0.539 | 0.332 | 0.480 | 0.255 | 0.336 | 0.637 | 0.658 |
| TEPP | 0.497 | 0.571 | 0.703 | 0.431 | 0.381 | 0.383 | 0.353 | 0.358 | 0.274 | 0.150 |
| Terbufos-oxon-sulfone | 0.538 | 0.621 | 0.615 | 0.000 | 0.396 | 0.471 | 0.437 | 0.446 | 0.473 | 0.133 |
| Tetrachlorvinphos-E | 0.841 | 0.476 | 0.569 | 0.075 | 0.412 | 0.602 | 0.455 | 0.479 | 0.609 | 0.481 |
| Tetrachlorvinphos-Z | 0.670 | 0.480 | 0.501 | 0.334 | 0.377 | 0.571 | 0.380 | 0.413 | 0.645 | 0.544 |
| Thionazin-oxon | 0.554 | 0.428 | 0.594 | 0.666 | 0.444 | 0.468 | 0.399 | 0.439 | 0.288 | 0.204 |
| Tribufos | 0.339 | 0.660 | 0.708 | 0.653 | 0.395 | 0.420 | 0.317 | 0.333 | 0.938 | 0.465 |
| Trichlorfon | 0.771 | 0.299 | 0.385 | 0.192 | 0.679 | 0.613 | 0.693 | 0.706 | 0.294 | 0.227 |
| Vamidothion | 0.181 | 0.659 | 0.638 | 0.588 | 0.412 | 0.457 | 0.413 | 0.399 | 0.240 | 0.165 |
| Z-Mevinphos | 0.657 | 0.443 | 0.396 | 0.369 | 0.581 | 0.636 | 0.482 | 0.485 | 0.187 | 0.168 |
| 328-04-1 | 0.665 | 0.523 | 0.641 | 0.427 | 0.424 | 0.274 | 0.369 | 0.302 | 0.700 | 0.669 |
| 333-40-4 | 0.461 | 0.575 | 0.625 | 0.327 | 0.420 | 0.433 | 0.315 | 0.334 | 0.660 | 0.583 |
| 1217-97-6 | 1.000 | 0.515 | 0.488 | 0.228 | 0.432 | 0.645 | 0.413 | 0.417 | 0.741 | 0.533 |
| 2524-04-1 | 0.648 | 0.139 | 0.136 | 0.674 | 0.863 | 0.819 | 0.800 | 0.786 | 0.637 | 0.587 |
| 2665-30-7 | 0.511 | 0.613 | 0.736 | 0.309 | 0.279 | 0.430 | 0.262 | 0.198 | 0.663 | 0.695 |
| 2668-92-0 | 0.645 | 0.923 | 0.821 | 0.653 | 0.249 | 0.338 | 0.199 | 0.142 | 0.689 | 0.439 |
| 2703-13-1 | 0.562 | 0.522 | 0.502 | 0.224 | 0.534 | 0.552 | 0.436 | 0.497 | 0.728 | 0.741 |
| 2782-70-9 | 0.189 | 0.785 | 0.838 | 0.742 | 0.245 | 0.324 | 0.463 | 0.269 | 0.810 | 0.593 |
| 2953-29-9 | 0.575 | 0.069 | 0.064 | 0.406 | 0.937 | 0.899 | 0.922 | 0.864 | 0.552 | 0.416 |
| 5840-95-9 | 0.119 | 0.531 | 0.580 | 0.742 | 0.447 | 0.443 | 0.429 | 0.452 | 0.493 | 0.235 |
| 32345-29-2 | 0.561 | 0.465 | 0.592 | 0.431 | 0.457 | 0.519 | 0.419 | 0.425 | 0.651 | 0.646 |
| Acethion | 0.241 | 0.512 | 0.614 | 0.507 | 0.476 | 0.419 | 0.346 | 0.441 | 0.608 | 0.386 |
| Akton | 0.748 | 0.522 | 0.467 | 0.621 | 0.486 | 0.469 | 0.248 | 0.354 | 0.829 | 0.867 |
| Amidithion | 0.000 | 0.560 | 0.554 | 0.665 | 0.486 | 0.433 | 0.475 | 0.464 | 0.307 | 0.056 |
| Aminofenitrothion | 0.801 | 0.450 | 0.462 | 0.398 | 0.519 | 0.469 | 0.447 | 0.495 | 0.507 | 0.402 |
| Amiprofos-methyl | 0.545 | 0.639 | 0.647 | 0.488 | 0.313 | 0.455 | 0.177 | 0.268 | 0.649 | 0.552 |
| Anilofos | 0.622 | 0.676 | 0.746 | 0.617 | 0.343 | 0.369 | 0.265 | 0.428 | 0.716 | 0.476 |
| Aspon | 0.492 | 0.752 | 0.889 | 0.645 | 0.263 | 0.308 | 0.140 | 0.151 | 0.798 | 0.451 |
| Athidathion | 0.377 | 0.652 | 0.735 | 0.594 | 0.400 | 0.283 | 0.263 | 0.328 | 0.618 | 0.291 |
| Azinphos-ethyl | 0.474 | 0.906 | 0.962 | 0.729 | 0.189 | 0.246 | 0.133 | 0.117 | 0.644 | 0.441 |
| Azinphos-methyl | 0.811 | 0.817 | 0.766 | 0.510 | 0.311 | 0.321 | 0.271 | 0.277 | 0.551 | 0.385 |
| Azothoate | 0.188 | 0.586 | 0.624 | 1.000 | 0.198 | 0.557 | 0.452 | 0.210 | 0.884 | 0.624 |
| Bensulide | 0.272 | 0.940 | 0.998 | 0.887 | 0.000 | 0.115 | 0.163 | 0.229 | 0.709 | 0.173 |
| Bromophos | 0.715 | 0.446 | 0.469 | 0.420 | 0.514 | 0.629 | 0.407 | 0.493 | 0.843 | 0.829 |
| Bromophos-ethyl | 0.657 | 0.516 | 0.574 | 0.457 | 0.348 | 0.407 | 0.270 | 0.339 | 0.900 | 0.922 |
| Butamifos | 0.483 | 0.686 | 0.772 | 0.447 | 0.269 | 0.371 | 0.107 | 0.089 | 0.762 | 0.661 |
| Butathiofos | 0.430 | 0.530 | 0.749 | 0.689 | 0.328 | 0.330 | 0.282 | 0.310 | 0.724 | 0.524 |
| carbophenothion | 0.276 | 0.672 | 0.719 | 0.557 | 0.383 | 0.370 | 0.354 | 0.332 | 0.892 | 0.737 |
| Carbophenothion-methyl | 0.327 | 0.568 | 0.604 | 0.757 | 0.522 | 0.426 | 0.388 | 0.479 | 0.841 | 0.656 |
| Chlorethoxyphos | 0.753 | 0.409 | 0.479 | 0.378 | 0.551 | 0.639 | 0.493 | 0.481 | 0.843 | 0.775 |
| Chlormephos | 0.632 | 0.229 | 0.292 | 0.248 | 0.742 | 0.680 | 0.580 | 0.683 | 0.670 | 0.713 |
| Chlorphoxim | 0.476 | 0.713 | 0.814 | 0.640 | 0.185 | 0.276 | 0.136 | 0.205 | 0.795 | 0.788 |
| Chlorprazophos | 0.425 | 0.783 | 0.831 | 0.683 | 0.185 | 0.228 | 0.150 | 0.157 | 0.689 | 0.611 |
| Chlorpyrifos | 0.468 | 0.489 | 0.537 | 0.398 | 0.369 | 0.536 | 0.264 | 0.293 | 0.825 | 0.858 |
| Chlorpyrifos-methyl | 0.924 | 0.428 | 0.371 | 0.403 | 0.576 | 0.573 | 0.421 | 0.496 | 0.745 | 0.760 |
| Chlorthion | 0.402 | 0.508 | 0.527 | 0.360 | 0.425 | 0.684 | 0.348 | 0.385 | 0.661 | 0.609 |
| Chlorthiophos I | 0.814 | 0.497 | 0.729 | 0.480 | 0.356 | 0.346 | 0.202 | 0.314 | 0.860 | 0.840 |
| Chlorthiophos II | 0.842 | 0.611 | 0.676 | 0.401 | 0.357 | 0.424 | 0.172 | 0.277 | 0.866 | 0.851 |
| Chlorthiophos III | 0.767 | 0.633 | 0.623 | 0.558 | 0.342 | 0.404 | 0.201 | 0.208 | 0.863 | 0.840 |
| Coumaphos | 0.406 | 0.836 | 0.902 | 0.402 | 0.221 | 0.178 | 0.180 | 0.286 | 0.729 | 0.618 |
| Coumithioate | 0.383 | 0.946 | 0.956 | 0.766 | 0.187 | 0.102 | 0.078 | 0.314 | 0.735 | 0.679 |
| Cyanofenphos | 0.512 | 0.657 | 0.761 | 0.595 | 0.144 | 0.207 | 0.129 | 0.126 | 0.768 | 0.707 |
| Cyanophos | 0.585 | 0.430 | 0.441 | 0.460 | 0.567 | 0.576 | 0.476 | 0.507 | 0.536 | 0.411 |
| Cythioate | 0.827 | 0.487 | 0.673 | 0.697 | 0.386 | 0.606 | 0.359 | 0.500 | 0.405 | 0.162 |
| Demephion-O | 0.412 | 0.286 | 0.293 | 0.416 | 0.736 | 0.664 | 0.599 | 0.665 | 0.586 | 0.340 |
| Demeton-O | 0.308 | 0.441 | 0.487 | 0.462 | 0.531 | 0.534 | 0.363 | 0.497 | 0.657 | 0.667 |
| Demeton-O-methyl | 0.364 | 0.399 | 0.357 | 0.452 | 0.679 | 0.601 | 0.521 | 0.613 | 0.600 | 0.431 |
| Desbromoleptophos | 0.873 | 0.743 | 0.764 | 0.297 | 0.501 | 0.951 | 0.219 | 0.176 | 0.902 | 0.862 |
| Desmethylfenitrothion | 0.900 | 0.382 | 0.350 | 0.410 | 0.495 | 0.745 | 0.607 | 0.418 | 0.485 | 0.396 |
| Dialifor | 0.477 | 0.895 | 0.936 | 0.729 | 0.279 | 0.165 | 0.035 | 0.102 | 0.723 | 0.371 |
| Diazinon | 0.562 | 0.580 | 0.690 | 0.498 | 0.304 | 0.389 | 0.270 | 0.321 | 0.665 | 0.515 |
| Dichlofenthion | 0.665 | 0.490 | 0.579 | 0.450 | 0.419 | 0.435 | 0.296 | 0.314 | 0.823 | 0.821 |
| Dimethoate | 0.348 | 0.378 | 0.410 | 0.474 | 0.631 | 0.646 | 0.620 | 0.588 | 0.297 | 0.029 |
| Dimethoate-ethyl | 0.233 | 0.454 | 0.435 | 0.475 | 0.572 | 0.569 | 0.512 | 0.503 | 0.324 | 0.041 |
| Dimethyl chlorothiophosphate | 0.679 | 0.000 | 0.007 | 0.145 | 1.000 | 1.000 | 0.909 | 0.909 | 0.511 | 0.332 |
| Dioxabenzofos | 0.861 | 0.405 | 0.476 | 0.519 | 0.625 | 0.575 | 0.506 | 0.554 | 0.532 | 0.426 |
| Dioxathion | 0.268 | 0.877 | 0.957 | 0.661 | 0.322 | 0.335 | 0.425 | 0.276 | 0.760 | 0.669 |
| Disulfoton | 0.327 | 0.438 | 0.449 | 0.466 | 0.558 | 0.557 | 0.489 | 0.498 | 0.688 | 0.745 |
| Disulfoton sulfone | 0.348 | 0.520 | 0.623 | 0.596 | 0.472 | 0.414 | 0.345 | 0.346 | 0.478 | 0.057 |
| Disulfoton sulfone oxygen analog | 0.343 | 0.475 | 0.572 | 0.674 | 0.587 | 0.602 | 0.565 | 0.500 | 0.354 | 0.027 |
| Disulfoton sulfoxide | 0.282 | 0.497 | 0.487 | 0.593 | 0.482 | 0.483 | 0.403 | 0.396 | 0.472 | 0.632 |
| Ditalimfos | 0.645 | 0.760 | 0.828 | 0.337 | 0.275 | 0.319 | 0.177 | 0.173 | 0.620 | 0.292 |
| EPBP | 0.574 | 0.615 | 0.821 | 0.607 | 0.274 | 0.330 | 0.165 | 0.150 | 0.937 | 0.942 |
| Ethion | 0.462 | 0.626 | 0.817 | 0.655 | 0.297 | 0.420 | 0.343 | 0.315 | 0.878 | 0.560 |
| Ethion monooxon | 0.523 | 0.631 | 0.806 | 0.602 | 0.293 | 0.266 | 0.256 | 0.236 | 0.702 | 0.440 |
| Etrimfos | 0.602 | 0.631 | 0.701 | 0.079 | 0.343 | 0.377 | 0.189 | 0.319 | 0.645 | 0.401 |
| Famphur | 0.700 | 0.661 | 0.730 | 0.667 | 0.277 | 0.720 | 0.884 | 0.554 | 0.507 | 0.197 |
| Fenitrothion | 0.453 | 0.501 | 0.441 | 0.363 | 0.429 | 0.700 | 0.350 | 0.530 | 0.630 | 0.541 |
| Fensulfothion | 0.456 | 0.563 | 0.697 | 0.640 | 0.325 | 0.293 | 0.287 | 0.329 | 0.318 | 0.623 |
| Fenthion | 0.539 | 0.526 | 0.668 | 0.377 | 0.493 | 0.519 | 0.406 | 0.453 | 0.720 | 0.658 |
| Fenthion sulfone | 0.499 | 0.603 | 0.587 | 0.615 | 0.346 | 0.633 | 0.456 | 0.528 | 0.515 | 0.127 |
| Fenthion sulfoxide | 0.658 | 0.517 | 0.566 | 0.526 | 0.410 | 0.512 | 0.465 | 0.517 | 0.255 | 0.573 |
| Formothion | 0.286 | 0.469 | 0.474 | 0.593 | 0.553 | 0.534 | 0.504 | 0.495 | 0.382 | 0.032 |
| Fosmethilan | 0.689 | 0.799 | 0.827 | 0.645 | 0.327 | 0.391 | 0.228 | 0.199 | 0.756 | 0.429 |
| Iodofenfos | 0.607 | 0.439 | 0.469 | 0.099 | 0.566 | 0.596 | 0.425 | 0.445 | 0.868 | 0.819 |
| IPSP | 0.313 | 0.542 | 0.551 | 0.515 | 0.519 | 0.477 | 0.396 | 0.408 | 0.491 | 0.411 |
| Isazophos-methyl | 0.473 | 0.504 | 0.523 | 0.397 | 0.488 | 0.704 | 0.474 | 0.508 | 0.536 | 0.523 |
| Isocarbophos | 0.789 | 0.681 | 0.700 | 0.393 | 0.337 | 0.522 | 0.236 | 0.392 | 0.551 | 0.348 |
| Isochlorthion | 0.548 | 0.533 | 0.613 | 0.498 | 0.521 | 0.667 | 0.350 | 0.497 | 0.683 | 0.573 |
| Isofenphos | 0.373 | 0.721 | 0.772 | 0.572 | 0.192 | 0.169 | 0.020 | 0.151 | 0.719 | 0.544 |
| Isothioate | 0.318 | 0.395 | 0.394 | 0.492 | 0.630 | 0.607 | 0.584 | 0.574 | 0.667 | 0.577 |
| Isoxathion | 0.147 | 0.751 | 0.858 | 0.836 | 0.155 | 0.234 | 0.218 | 0.110 | 0.722 | 0.652 |
| Leptophos | 0.673 | 0.640 | 0.743 | 0.609 | 0.406 | 0.243 | 0.198 | 0.275 | 1.000 | 1.000 |
| Lythidathion | 0.415 | 0.589 | 0.707 | 0.490 | 0.424 | 0.407 | 0.264 | 0.299 | 0.614 | 0.216 |
| Malathion | 0.532 | 0.613 | 0.498 | 0.571 | 0.319 | 0.347 | 0.286 | 0.329 | 0.512 | 0.302 |
| Malathion dicarboxylic acid | 0.541 | 0.724 | 0.796 | 0.344 | 0.473 | 0.475 | 0.503 | 0.518 | 0.313 | 0.014 |
| Mecarbam | 0.530 | 0.637 | 0.693 | 0.596 | 0.375 | 0.283 | 0.207 | 0.301 | 0.530 | 0.108 |
| Menazon | 0.363 | 0.530 | 0.727 | 0.665 | 0.383 | 0.367 | 0.416 | 0.441 | 0.335 | 0.085 |
| Merpofos | 0.597 | 0.550 | 0.591 | 0.410 | 0.393 | 0.481 | 0.321 | 0.331 | 0.686 | 0.696 |
| Methacrifos | 0.405 | 0.469 | 0.483 | 0.575 | 0.546 | 0.610 | 0.502 | 0.465 | 0.510 | 0.321 |
| Methidathion | 0.345 | 0.569 | 0.587 | 0.476 | 0.464 | 0.381 | 0.350 | 0.343 | 0.481 | 0.190 |
| Methyl parathion | 0.482 | 0.505 | 0.549 | 0.339 | 0.593 | 0.616 | 0.406 | 0.538 | 0.597 | 0.547 |
| Methyl phenkapton | 0.358 | 0.677 | 0.661 | 0.469 | 0.430 | 0.423 | 0.312 | 0.367 | 0.893 | 0.702 |
| Methylisocyanothion | 0.487 | 0.482 | 0.557 | 0.430 | 0.500 | 0.540 | 0.377 | 0.414 | 0.661 | 0.574 |
| Miral | 0.514 | 0.557 | 0.702 | 0.506 | 0.324 | 0.444 | 0.326 | 0.315 | 0.621 | 0.656 |
| Morphothion | 0.112 | 0.596 | 0.611 | 0.669 | 0.492 | 0.388 | 0.381 | 0.407 | 0.330 | 0.062 |
| Parathion | 0.514 | 0.580 | 0.693 | 0.520 | 0.522 | 0.380 | 0.331 | 0.422 | 0.668 | 0.614 |
| Phenkapton | 0.416 | 0.742 | 0.739 | 0.548 | 0.346 | 0.435 | 0.236 | 0.242 | 0.942 | 0.775 |
| Phenthoate | 0.688 | 0.668 | 0.805 | 0.468 | 0.335 | 0.244 | 0.261 | 0.265 | 0.669 | 0.537 |
| Phenthoate-acid | 0.950 | 0.662 | 0.664 | 0.358 | 0.444 | 0.421 | 0.373 | 0.402 | 0.433 | 0.165 |
| Phorate | 0.415 | 0.475 | 0.567 | 0.357 | 0.619 | 0.556 | 0.523 | 0.560 | 0.696 | 0.567 |
| Phorate sulfone | 0.339 | 0.434 | 0.543 | 0.447 | 0.543 | 0.535 | 0.466 | 0.470 | 0.504 | 0.096 |
| Phorate sulfoxide | 0.375 | 0.402 | 0.459 | 0.423 | 0.561 | 0.501 | 0.505 | 0.480 | 0.467 | 0.511 |
| Phosacetim | 0.667 | 0.680 | 0.912 | 0.710 | 0.122 | 0.523 | 0.325 | 0.192 | 0.703 | 0.792 |
| Phosalone | 0.331 | 0.892 | 0.972 | 0.670 | 0.139 | 0.270 | 0.133 | 0.153 | 0.746 | 0.490 |
| Phosmet | 0.703 | 0.840 | 0.768 | 0.671 | 0.346 | 0.321 | 0.256 | 0.241 | 0.563 | 0.161 |
| Phosnichlor | 0.553 | 0.530 | 0.554 | 0.347 | 0.408 | 0.667 | 0.388 | 0.462 | 0.663 | 0.606 |
| Phostebupirim | 0.717 | 0.564 | 0.755 | 0.847 | 0.252 | 0.276 | 0.283 | 0.310 | 0.759 | 0.570 |
| Phoxim | 0.472 | 0.722 | 0.880 | 0.862 | 0.179 | 0.273 | 0.182 | 0.149 | 0.775 | 0.823 |
| Phoxim-methyl | 0.901 | 0.630 | 0.762 | 0.796 | 0.293 | 0.394 | 0.302 | 0.304 | 0.702 | 0.683 |
| Piperophos | 0.364 | 0.815 | 0.813 | 0.631 | 0.202 | 0.194 | 0.163 | 0.188 | 0.701 | 0.150 |
| Pirimiphos ethyl | 0.397 | 0.631 | 0.785 | 0.806 | 0.175 | 0.415 | 0.197 | 0.216 | 0.785 | 0.524 |
| Pirimiphos-methyl | 0.580 | 0.613 | 0.696 | 0.672 | 0.260 | 0.418 | 0.315 | 0.351 | 0.724 | 0.416 |
| Primidophos | 0.660 | 0.621 | 0.776 | 0.610 | 0.140 | 0.395 | 0.172 | 0.324 | 0.633 | 0.452 |
| Propetamphos | 0.519 | 0.416 | 0.505 | 0.378 | 0.437 | 0.616 | 0.413 | 0.398 | 0.600 | 0.224 |
| Prothidathion | 0.310 | 0.719 | 0.846 | 0.692 | 0.237 | 0.214 | 0.231 | 0.254 | 0.710 | 0.355 |
| Prothiofos | 0.658 | 0.563 | 0.588 | 0.436 | 0.498 | 0.474 | 0.297 | 0.339 | 0.858 | 0.874 |
| Prothion | 0.177 | 0.579 | 0.659 | 0.685 | 0.422 | 0.415 | 0.361 | 0.334 | 0.641 | 0.431 |
| Prothoate | 0.098 | 0.530 | 0.616 | 0.505 | 0.421 | 0.416 | 0.420 | 0.357 | 0.482 | 0.075 |
| Pyrazophos | 0.337 | 0.947 | 0.845 | 0.783 | 0.262 | 0.203 | 0.413 | 0.621 | 0.655 | 0.479 |
| Pyridiphenthion | 0.485 | 0.854 | 0.831 | 0.578 | 0.158 | 0.124 | 0.074 | 0.088 | 0.584 | 0.251 |
| Quinalphos | 0.463 | 0.696 | 0.679 | 0.594 | 0.227 | 0.338 | 0.188 | 0.180 | 0.678 | 0.556 |
| Quinalphos-methyl | 0.513 | 0.639 | 0.614 | 0.838 | 0.397 | 0.719 | 0.373 | 0.332 | 0.619 | 0.420 |
| Quinitofos | 0.712 | 0.803 | 0.979 | 0.599 | 0.242 | 0.298 | 0.000 | 0.000 | 0.766 | 0.683 |
| Quinothion | 0.527 | 0.719 | 0.749 | 0.494 | 0.235 | 0.305 | 0.105 | 0.148 | 0.749 | 0.594 |
| Ronnel | 0.593 | 0.465 | 0.493 | 0.466 | 0.542 | 0.643 | 0.383 | 0.508 | 0.827 | 0.825 |
| Sophamide | 0.160 | 0.526 | 0.532 | 0.509 | 0.568 | 0.437 | 0.475 | 0.487 | 0.310 | 0.041 |
| Sulfotep | 0.564 | 0.517 | 0.595 | 0.483 | 0.450 | 0.471 | 0.352 | 0.351 | 0.725 | 0.586 |
| Sulprofos | 0.459 | 0.660 | 0.609 | 0.600 | 0.428 | 0.381 | 0.267 | 0.324 | 0.848 | 0.765 |
| Temephos | 0.649 | 0.979 | 0.830 | 0.786 | 0.151 | 0.412 | 0.585 | 0.242 | 0.920 | 0.582 |
| Temephos sulfoxide | 0.283 | 0.789 | 0.492 | 0.790 | 0.001 | 0.430 | 0.076 | 0.431 | 0.464 | 0.584 |
| Terbufos | 0.442 | 0.485 | 0.628 | 0.402 | 0.515 | 0.576 | 0.474 | 0.505 | 0.815 | 0.655 |
| Terbufos sulfone | 0.549 | 0.497 | 0.604 | 0.259 | 0.467 | 0.508 | 0.415 | 0.437 | 0.536 | 0.200 |
| Terbufos sulfoxide | 0.517 | 0.475 | 0.530 | 0.472 | 0.514 | 0.522 | 0.450 | 0.427 | 0.438 | 0.629 |
| Thiometon | 0.400 | 0.331 | 0.367 | 0.470 | 0.691 | 0.650 | 0.585 | 0.602 | 0.604 | 0.629 |
| Thionazin | 0.535 | 0.400 | 0.511 | 0.340 | 0.457 | 0.494 | 0.411 | 0.431 | 0.491 | 0.500 |
| Tolclofos-methyl | 0.870 | 0.323 | 0.294 | 0.341 | 0.584 | 0.704 | 0.502 | 0.529 | 0.775 | 0.757 |
| Triazofos | 0.050 | 0.741 | 0.857 | 0.970 | 0.157 | 0.254 | 0.132 | 0.111 | 0.614 | 0.509 |
| Trichloronat | 0.798 | 0.572 | 0.540 | 0.450 | 0.462 | 0.490 | 0.306 | 0.356 | 0.885 | 0.938 |

附表3OPs分子蚯蚓毒性效应值、蜜蜂毒性效应值、褐飞虱毒性效应值、小菜蛾毒性效应值、麦蚜毒性效应值及二化螟毒性效应值的农业土壤综合靶标与非靶标生物毒性效应值中每种OPs分子所占权重

|  |  |
| --- | --- |
| Compounds | 权重(%) |
| 2674-91-1 | 0.199 |
| 31110-62-0 | 0.317 |
| 76960-87-7 | 0.227 |
| 83318-76-7 | 0.339 |
| Acephate | 0.551 |
| Acetoxon | 0.327 |
| Amiton | 0.315 |
| Azamethiphos | 0.346 |
| Azethion | 0.354 |
| Bensulide-Oxon | 0.711 |
| Bomyl | 0.434 |
| Buminafos | 0.351 |
| Butonate | 0.302 |
| Cadusafos | 0.24 |
| Chlorfenvinphos | 0.454 |
| cis-Azodrin | 0.395 |
| cis-Methocrotophos | 0.181 |
| Coumaphos-oxon | 0.513 |
| Crotoxyphos | 0.263 |
| Crufomate | 0.565 |
| Cyanthoate | 0.282 |
| DDVP | 0.181 |
| Demephion-S | 0.264 |
| Demeton-S | 0.176 |
| Demeton-S-methyl | 0.246 |
| Demeton-S-methyl-sulfone | 0.195 |
| Demeton-S-sulfone | 0.176 |
| Dequest-2010 | 0.236 |
| Diamidafos | 0.33 |
| Diazoxon | 0.662 |
| Dicrotophos | 0.311 |
| Diphenprofos | 0.682 |
| DMCP | 0.342 |
| Edifenphos | 0.594 |
| E-Mevinphos | 0.249 |
| Endothion | 0.181 |
| Ethephon | 1.978 |
| Ethion-dioxon | 0.334 |
| Ethoprop | 0.151 |
| Ethyl-hydrogen-1-propylphosphonate | 0.319 |
| Fenamiphos | 0.371 |
| Fenamiphos-sulfone | 0.438 |
| Fenamiphos-sulfoxide | 0.401 |
| Fenthion-oxon | 0.259 |
| Fenthion-oxon-sulfone | 0.35 |
| Fenthion-oxon-sulfoxide | 0.297 |
| Fonofos-oxon | 0.395 |
| Fospirate | 0.275 |
| Fosthiazate | 0.335 |
| Fosthietan | 0.171 |
| Heptenophos | 0.44 |
| Hexylthiofos | 0.273 |
| Imicyafos | 0.462 |
| Inezin | 0.574 |
| Iprobenfos | 0.229 |
| Isomalathion | 0.348 |
| Isosumithion | 0.649 |
| Leptophos-oxon | 0.43 |
| Malaoxon | 0.335 |
| Mephosfolan | 0.274 |
| Methamidophos | 1.618 |
| Methyl-paraoxon | 0.287 |
| Monocrotophos | 0.294 |
| Naled | 0.096 |
| Naphthalophos | 0.482 |
| Omethoate | 0.163 |
| Oxydemeton-methyl | 0.246 |
| Paraoxon | 0.628 |
| Phoratoxon-sulfoxide | 0.235 |
| Phosfolan | 0.161 |
| Phosmetoxon | 0.332 |
| Phosphamidon | 0.343 |
| Profenofos | 0.378 |
| Propaphos | 0.418 |
| Propoxon | 0.227 |
| Pyraclofos | 0.392 |
| Sulprofos-oxon | 0.337 |
| TEPP | 0.357 |
| Terbufos-oxon-sulfone | 0.735 |
| Tetrachlorvinphos-E | 0.531 |
| Tetrachlorvinphos-Z | 0.408 |
| Thionazin-oxon | 0.193 |
| Tribufos | 0.251 |
| Trichlorfon | 0.601 |
| Vamidothion | 0.228 |
| Z-Mevinphos | 0.281 |
| 328-04-1 | 0.533 |
| 333-40-4 | 0.423 |
| 1217-97-6 | 0.404 |
| 2524-04-1 | 2.392 |
| 2665-30-7 | 0.509 |
| 2668-92-0 | 0.391 |
| 2703-13-1 | 0.383 |
| 2782-70-9 | 0.808 |
| 2953-29-9 | 1.435 |
| 5840-95-9 | 0.191 |
| 32345-29-2 | 0.262 |
| Acethion | 0.294 |
| Akton | 0.703 |
| Amidithion | 0.132 |
| Aminofenitrothion | 0.314 |
| Amiprofos-methyl | 0.474 |
| Anilofos | 0.392 |
| Aspon | 0.399 |
| Athidathion | 0.336 |
| Azinphos-ethyl | 0.366 |
| Azinphos-methyl | 0.344 |
| Azothoate | 1.773 |
| Bensulide | 0.559 |
| Bromophos | 0.296 |
| Bromophos-ethyl | 0.421 |
| Butamifos | 0.603 |
| Butathiofos | 0.226 |
| carbophenothion | 0.282 |
| Carbophenothion-methyl | 0.312 |
| Chlorethoxyphos | 0.244 |
| Chlormephos | 0.309 |
| Chlorphoxim | 0.365 |
| Chlorprazophos | 0.344 |
| Chlorpyrifos | 0.504 |
| Chlorpyrifos-methyl | 0.387 |
| Chlorthion | 0.413 |
| Chlorthiophos I | 0.41 |
| Chlorthiophos II | 0.494 |
| Chlorthiophos III | 0.522 |
| Coumaphos | 0.617 |
| Coumithioate | 0.588 |
| Cyanofenphos | 0.506 |
| Cyanophos | 0.197 |
| Cythioate | 0.644 |
| Demephion-O | 0.167 |
| Demeton-O | 0.349 |
| Demeton-O-methyl | 0.242 |
| Desbromoleptophos | 1.044 |
| Desmethylfenitrothion | 0.721 |
| Dialifor | 0.543 |
| Diazinon | 0.334 |
| Dichlofenthion | 0.399 |
| Dimethoate | 0.191 |
| Dimethoate-ethyl | 0.176 |
| Dimethyl chlorothiophosphate | 0.089 |
| Dioxabenzofos | 0.185 |
| Dioxathion | 0.819 |
| Disulfoton | 0.186 |
| Disulfoton sulfone | 0.276 |
| Disulfoton sulfone oxygen analog | 0.575 |
| Disulfoton sulfoxide | 0.286 |
| Ditalimfos | 0.537 |
| EPBP | 0.408 |
| Ethion | 0.38 |
| Ethion monooxon | 0.323 |
| Etrimfos | 0.725 |
| Famphur | 3.3 |
| Fenitrothion | 0.524 |
| Fensulfothion | 0.252 |
| Fenthion | 0.36 |
| Fenthion sulfone | 0.672 |
| Fenthion sulfoxide | 0.345 |
| Formothion | 0.139 |
| Fosmethilan | 0.387 |
| Iodofenfos | 0.495 |
| IPSP | 0.256 |
| Isazophos-methyl | 0.317 |
| Isocarbophos | 0.429 |
| Isochlorthion | 0.462 |
| Isofenphos | 0.627 |
| Isothioate | 0.117 |
| Isoxathion | 0.393 |
| Leptophos | 0.456 |
| Lythidathion | 0.377 |
| Malathion | 0.559 |
| Malathion dicarboxylic acid | 0.815 |
| Mecarbam | 0.393 |
| Menazon | 0.357 |
| Merpofos | 0.361 |
| Methacrifos | 0.259 |
| Methidathion | 0.363 |
| Methyl parathion | 0.378 |
| Methyl phenkapton | 0.315 |
| Methylisocyanothion | 0.287 |
| Miral | 0.315 |
| Morphothion | 0.186 |
| Parathion | 0.431 |
| Phenkapton | 0.369 |
| Phenthoate | 0.458 |
| Phenthoate-acid | 0.389 |
| Phorate | 0.397 |
| Phorate sulfone | 0.225 |
| Phorate sulfoxide | 0.255 |
| Phosacetim | 0.801 |
| Phosalone | 0.379 |
| Phosmet | 0.293 |
| Phosnichlor | 0.369 |
| Phostebupirim | 0.243 |
| Phoxim | 0.341 |
| Phoxim-methyl | 0.316 |
| Piperophos | 0.365 |
| Pirimiphos ethyl | 0.484 |
| Pirimiphos-methyl | 0.347 |
| Primidophos | 0.515 |
| Propetamphos | 0.347 |
| Prothidathion | 0.285 |
| Prothiofos | 0.43 |
| Prothion | 0.232 |
| Prothoate | 0.3 |
| Pyrazophos | 1.838 |
| Pyridiphenthion | 0.543 |
| Quinalphos | 0.474 |
| Quinalphos-methyl | 1.103 |
| Quinitofos | 0.666 |
| Quinothion | 0.528 |
| Ronnel | 0.35 |
| Sophamide | 0.239 |
| Sulfotep | 0.299 |
| Sulprofos | 0.361 |
| Temephos | 1.733 |
| Temephos sulfoxide | 1.872 |
| Terbufos | 0.344 |
| Terbufos sulfone | 0.396 |
| Terbufos sulfoxide | 0.233 |
| Thiometon | 0.129 |
| Thionazin | 0.348 |
| Tolclofos-methyl | 0.375 |
| Triazofos | 0.446 |
| Trichloronat | 0.397 |

附表4OPs暴露下蚯蚓毒性效应值、蜜蜂毒性效应值、褐飞虱毒性效应值、小菜蛾毒性效应值、麦蚜毒性效应值及二化螟毒性效应值

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Compounds | 毒性效应值 | | | | | |
| 蚯蚓 | 蜜蜂 | 褐飞虱 | 小菜蛾 | 麦蚜 | 二化螟 |
| 2674-91-1 | 0.171 | 0.124 | 0.167 | 0.145 | 0.167 | 0.164 |
| 31110-62-0 | 0.216 | 0.201 | 0.206 | 0.198 | 0.237 | 0.213 |
| 76960-87-7 | 0.165 | 0.155 | 0.167 | 0.152 | 0.163 | 0.153 |
| 83318-76-7 | 0.244 | 0.173 | 0.267 | 0.232 | 0.247 | 0.243 |
| Acephate | 0.347 | 0.327 | 0.359 | 0.335 | 0.305 | 0.328 |
| Acetoxon | 0.314 | 0.207 | 0.293 | 0.263 | 0.298 | 0.307 |
| Amiton | 0.299 | 0.191 | 0.306 | 0.251 | 0.312 | 0.294 |
| Azamethiphos | 0.371 | 0.232 | 0.354 | 0.287 | 0.372 | 0.348 |
| Azethion | 0.305 | 0.214 | 0.310 | 0.276 | 0.347 | 0.307 |
| Bensulide-Oxon | 0.867 | 0.603 | 0.929 | 0.720 | 0.768 | 0.904 |
| Bomyl | 0.376 | 0.252 | 0.424 | 0.342 | 0.429 | 0.434 |
| Buminafos | 0.424 | 0.306 | 0.410 | 0.376 | 0.445 | 0.418 |
| Butonate | 0.260 | 0.175 | 0.269 | 0.233 | 0.273 | 0.261 |
| Cadusafos | 0.212 | 0.147 | 0.210 | 0.174 | 0.204 | 0.209 |
| Chlorfenvinphos | 0.415 | 0.269 | 0.432 | 0.392 | 0.464 | 0.440 |
| cis-Azodrin | 0.300 | 0.245 | 0.326 | 0.261 | 0.365 | 0.310 |
| cis-Methocrotophos | 0.166 | 0.140 | 0.172 | 0.145 | 0.169 | 0.162 |
| Coumaphos-oxon | 0.571 | 0.359 | 0.596 | 0.484 | 0.663 | 0.573 |
| Crotoxyphos | 0.276 | 0.229 | 0.293 | 0.251 | 0.305 | 0.289 |
| Crufomate | 0.580 | 0.410 | 0.597 | 0.456 | 0.507 | 0.511 |
| Cyanthoate | 0.286 | 0.220 | 0.296 | 0.230 | 0.284 | 0.287 |
| DDVP | 0.125 | 0.109 | 0.126 | 0.121 | 0.119 | 0.127 |
| Demephion-S | 0.187 | 0.168 | 0.182 | 0.170 | 0.205 | 0.181 |
| Demeton-S | 0.152 | 0.121 | 0.154 | 0.128 | 0.153 | 0.149 |
| Demeton-S-methyl | 0.178 | 0.162 | 0.179 | 0.164 | 0.200 | 0.185 |
| Demeton-S-methyl-sulfone | 0.160 | 0.147 | 0.160 | 0.139 | 0.161 | 0.158 |
| Demeton-S-sulfone | 0.166 | 0.145 | 0.168 | 0.145 | 0.172 | 0.165 |
| Dequest-2010 | 0.154 | 0.128 | 0.154 | 0.141 | 0.139 | 0.149 |
| Diamidafos | 0.266 | 0.209 | 0.262 | 0.248 | 0.297 | 0.257 |
| Diazoxon | 0.669 | 0.268 | 0.716 | 0.552 | 0.732 | 0.706 |
| Dicrotophos | 0.241 | 0.160 | 0.249 | 0.200 | 0.272 | 0.265 |
| Diphenprofos | 0.753 | 0.604 | 0.852 | 0.639 | 0.724 | 0.696 |
| DMCP | 0.297 | 0.168 | 0.274 | 0.228 | 0.284 | 0.271 |
| Edifenphos | 0.632 | 0.424 | 0.619 | 0.403 | 0.680 | 0.657 |
| E-Mevinphos | 0.209 | 0.159 | 0.204 | 0.171 | 0.225 | 0.214 |
| Endothion | 0.172 | 0.136 | 0.171 | 0.151 | 0.178 | 0.174 |
| Ethephon | 1.000 | 1.055 | 0.992 | 1.073 | 0.802 | 0.741 |
| Ethion-dioxon | 0.353 | 0.237 | 0.361 | 0.280 | 0.349 | 0.363 |
| Ethoprop | 0.126 | 0.099 | 0.122 | 0.111 | 0.124 | 0.124 |
| Ethyl-hydrogen-1-propylphosphonate | 0.202 | 0.192 | 0.189 | 0.181 | 0.208 | 0.189 |
| Fenamiphos | 0.385 | 0.240 | 0.395 | 0.303 | 0.415 | 0.404 |
| Fenamiphos-sulfone | 0.455 | 0.312 | 0.507 | 0.417 | 0.499 | 0.495 |
| Fenamiphos-sulfoxide | 0.422 | 0.283 | 0.461 | 0.350 | 0.477 | 0.448 |
| Fenthion-oxon | 0.237 | 0.162 | 0.235 | 0.195 | 0.247 | 0.229 |
| Fenthion-oxon-sulfone | 0.342 | 0.214 | 0.357 | 0.288 | 0.353 | 0.351 |
| Fenthion-oxon-sulfoxide | 0.275 | 0.216 | 0.283 | 0.236 | 0.307 | 0.272 |
| Fonofos-oxon | 0.349 | 0.210 | 0.333 | 0.276 | 0.390 | 0.340 |
| Fospirate | 0.238 | 0.157 | 0.239 | 0.190 | 0.251 | 0.248 |
| Fosthiazate | 0.319 | 0.189 | 0.314 | 0.246 | 0.310 | 0.316 |
| Fosthietan | 0.142 | 0.115 | 0.136 | 0.124 | 0.133 | 0.136 |
| Heptenophos | 0.395 | 0.235 | 0.370 | 0.340 | 0.373 | 0.360 |
| Hexylthiofos | 0.246 | 0.160 | 0.242 | 0.204 | 0.242 | 0.242 |
| Imicyafos | 0.458 | 0.333 | 0.468 | 0.365 | 0.505 | 0.525 |
| Inezin | 0.606 | 0.310 | 0.599 | 0.519 | 0.656 | 0.623 |
| Iprobenfos | 0.227 | 0.189 | 0.232 | 0.193 | 0.220 | 0.221 |
| Isomalathion | 0.352 | 0.238 | 0.356 | 0.300 | 0.352 | 0.375 |
| Isosumithion | 0.544 | 0.421 | 0.593 | 0.373 | 0.509 | 0.584 |
| Leptophos-oxon | 0.457 | 0.303 | 0.455 | 0.339 | 0.489 | 0.493 |
| Malaoxon | 0.335 | 0.232 | 0.342 | 0.303 | 0.356 | 0.348 |
| Mephosfolan | 0.236 | 0.149 | 0.238 | 0.194 | 0.240 | 0.236 |
| Methamidophos | 0.766 | 0.870 | 0.769 | 0.751 | 0.584 | 0.859 |
| Methyl-paraoxon | 0.247 | 0.166 | 0.255 | 0.206 | 0.249 | 0.231 |
| Monocrotophos | 0.235 | 0.204 | 0.234 | 0.208 | 0.265 | 0.239 |
| Naled | 0.068 | 0.060 | 0.070 | 0.063 | 0.069 | 0.068 |
| Naphthalophos | 0.534 | 0.317 | 0.539 | 0.407 | 0.539 | 0.584 |
| Omethoate | 0.131 | 0.105 | 0.126 | 0.112 | 0.125 | 0.123 |
| Oxydemeton-methyl | 0.202 | 0.179 | 0.187 | 0.173 | 0.202 | 0.195 |
| Paraoxon | 0.629 | 0.260 | 0.625 | 0.510 | 0.662 | 0.593 |
| Phoratoxon-sulfoxide | 0.202 | 0.145 | 0.198 | 0.177 | 0.203 | 0.208 |
| Phosfolan | 0.139 | 0.111 | 0.134 | 0.122 | 0.132 | 0.133 |
| Phosmetoxon | 0.342 | 0.229 | 0.337 | 0.283 | 0.359 | 0.359 |
| Phosphamidon | 0.299 | 0.227 | 0.314 | 0.234 | 0.283 | 0.281 |
| Profenofos | 0.376 | 0.235 | 0.358 | 0.302 | 0.407 | 0.380 |
| Propaphos | 0.417 | 0.291 | 0.425 | 0.375 | 0.468 | 0.462 |
| Propoxon | 0.225 | 0.175 | 0.218 | 0.194 | 0.221 | 0.230 |
| Pyraclofos | 0.435 | 0.353 | 0.465 | 0.352 | 0.474 | 0.437 |
| Sulprofos-oxon | 0.339 | 0.227 | 0.346 | 0.258 | 0.364 | 0.337 |
| TEPP | 0.356 | 0.216 | 0.352 | 0.295 | 0.352 | 0.349 |
| Terbufos-oxon-sulfone | 0.685 | 0.242 | 0.715 | 0.567 | 0.665 | 0.658 |
| Tetrachlorvinphos-E | 0.477 | 0.200 | 0.509 | 0.365 | 0.472 | 0.459 |
| Tetrachlorvinphos-Z | 0.345 | 0.221 | 0.403 | 0.289 | 0.392 | 0.378 |
| Thionazin-oxon | 0.177 | 0.146 | 0.180 | 0.149 | 0.182 | 0.174 |
| Tribufos | 0.251 | 0.188 | 0.244 | 0.202 | 0.256 | 0.251 |
| Trichlorfon | 0.457 | 0.272 | 0.440 | 0.409 | 0.395 | 0.391 |
| Vamidothion | 0.216 | 0.161 | 0.218 | 0.178 | 0.212 | 0.214 |
| Z-Mevinphos | 0.216 | 0.159 | 0.229 | 0.187 | 0.242 | 0.241 |
| 328-04-1 | 0.507 | 0.321 | 0.506 | 0.478 | 0.518 | 0.549 |
| 333-40-4 | 0.397 | 0.228 | 0.403 | 0.336 | 0.433 | 0.423 |
| 1217-97-6 | 0.338 | 0.192 | 0.380 | 0.267 | 0.375 | 0.373 |
| 2524-04-1 | 1.375 | 1.819 | 1.377 | 1.318 | 1.326 | 1.377 |
| 2665-30-7 | 0.520 | 0.268 | 0.545 | 0.406 | 0.547 | 0.574 |
| 2668-92-0 | 0.425 | 0.292 | 0.429 | 0.335 | 0.444 | 0.462 |
| 2703-13-1 | 0.325 | 0.181 | 0.327 | 0.276 | 0.347 | 0.325 |
| 2782-70-9 | 0.887 | 0.650 | 0.889 | 0.699 | 0.711 | 0.858 |
| 2953-29-9 | 0.748 | 0.846 | 0.736 | 0.718 | 0.626 | 0.722 |
| 5840-95-9 | 0.173 | 0.154 | 0.177 | 0.151 | 0.174 | 0.170 |
| 32345-29-2 | 0.240 | 0.159 | 0.241 | 0.194 | 0.242 | 0.240 |
| Acethion | 0.274 | 0.192 | 0.266 | 0.236 | 0.292 | 0.265 |
| Akton | 0.578 | 0.511 | 0.630 | 0.543 | 0.765 | 0.691 |
| Amidithion | 0.117 | 0.100 | 0.118 | 0.105 | 0.115 | 0.116 |
| Aminofenitrothion | 0.257 | 0.183 | 0.272 | 0.243 | 0.281 | 0.267 |
| Amiprofos-methyl | 0.453 | 0.304 | 0.494 | 0.370 | 0.548 | 0.504 |
| Anilofos | 0.404 | 0.284 | 0.399 | 0.328 | 0.420 | 0.358 |
| Aspon | 0.453 | 0.296 | 0.433 | 0.349 | 0.476 | 0.468 |
| Athidathion | 0.343 | 0.238 | 0.325 | 0.299 | 0.361 | 0.338 |
| Azinphos-ethyl | 0.436 | 0.291 | 0.420 | 0.335 | 0.439 | 0.441 |
| Azinphos-methyl | 0.359 | 0.226 | 0.359 | 0.298 | 0.366 | 0.363 |
| Azothoate | 1.664 | 1.719 | 2.022 | 1.271 | 1.579 | 1.981 |
| Bensulide | 0.681 | 0.501 | 0.731 | 0.557 | 0.654 | 0.614 |
| Bromophos | 0.244 | 0.177 | 0.258 | 0.199 | 0.277 | 0.252 |
| Bromophos-ethyl | 0.379 | 0.262 | 0.427 | 0.342 | 0.449 | 0.419 |
| Butamifos | 0.633 | 0.371 | 0.651 | 0.504 | 0.738 | 0.742 |
| Butathiofos | 0.233 | 0.174 | 0.233 | 0.194 | 0.238 | 0.231 |
| carbophenothion | 0.285 | 0.193 | 0.277 | 0.236 | 0.278 | 0.283 |
| Carbophenothion-methyl | 0.288 | 0.254 | 0.270 | 0.250 | 0.297 | 0.270 |
| Chlorethoxyphos | 0.203 | 0.139 | 0.205 | 0.162 | 0.208 | 0.211 |
| Chlormephos | 0.214 | 0.151 | 0.210 | 0.197 | 0.237 | 0.208 |
| Chlorphoxim | 0.394 | 0.270 | 0.420 | 0.327 | 0.437 | 0.410 |
| Chlorprazophos | 0.376 | 0.264 | 0.396 | 0.318 | 0.407 | 0.401 |
| Chlorpyrifos | 0.440 | 0.294 | 0.502 | 0.368 | 0.540 | 0.524 |
| Chlorpyrifos-methyl | 0.290 | 0.227 | 0.317 | 0.274 | 0.356 | 0.328 |
| Chlorthion | 0.358 | 0.231 | 0.391 | 0.263 | 0.409 | 0.394 |
| Chlorthiophos I | 0.417 | 0.261 | 0.412 | 0.349 | 0.464 | 0.418 |
| Chlorthiophos II | 0.483 | 0.290 | 0.496 | 0.396 | 0.574 | 0.521 |
| Chlorthiophos III | 0.489 | 0.358 | 0.531 | 0.425 | 0.592 | 0.584 |
| Coumaphos | 0.707 | 0.362 | 0.691 | 0.591 | 0.711 | 0.645 |
| Coumithioate | 0.697 | 0.482 | 0.676 | 0.591 | 0.736 | 0.599 |
| Cyanofenphos | 0.527 | 0.359 | 0.600 | 0.475 | 0.609 | 0.605 |
| Cyanophos | 0.158 | 0.123 | 0.163 | 0.139 | 0.171 | 0.165 |
| Cythioate | 0.628 | 0.499 | 0.632 | 0.442 | 0.632 | 0.544 |
| Demephion-O | 0.116 | 0.100 | 0.114 | 0.108 | 0.125 | 0.115 |
| Demeton-O | 0.292 | 0.218 | 0.299 | 0.255 | 0.341 | 0.296 |
| Demeton-O-methyl | 0.179 | 0.150 | 0.177 | 0.167 | 0.199 | 0.179 |
| Desbromoleptophos | 1.089 | 0.542 | 0.922 | 0.488 | 1.165 | 1.200 |
| Desmethylfenitrothion | 0.529 | 0.426 | 0.641 | 0.431 | 0.534 | 0.665 |
| Dialifor | 0.636 | 0.432 | 0.582 | 0.524 | 0.702 | 0.662 |
| Diazinon | 0.330 | 0.216 | 0.351 | 0.275 | 0.356 | 0.338 |
| Dichlofenthion | 0.361 | 0.246 | 0.380 | 0.317 | 0.415 | 0.407 |
| Dimethoate | 0.149 | 0.121 | 0.148 | 0.126 | 0.139 | 0.146 |
| Dimethoate-ethyl | 0.140 | 0.111 | 0.145 | 0.125 | 0.147 | 0.148 |
| Dimethyl chlorothiophosphate | 0.043 | 0.038 | 0.041 | 0.039 | 0.040 | 0.041 |
| Dioxabenzofos | 0.153 | 0.122 | 0.144 | 0.130 | 0.155 | 0.147 |
| Dioxathion | 0.972 | 0.616 | 0.847 | 0.702 | 0.751 | 0.864 |
| Disulfoton | 0.150 | 0.117 | 0.155 | 0.133 | 0.159 | 0.158 |
| Disulfoton sulfone | 0.259 | 0.196 | 0.251 | 0.223 | 0.274 | 0.273 |
| Disulfoton sulfone oxygen analog | 0.517 | 0.437 | 0.466 | 0.396 | 0.450 | 0.486 |
| Disulfoton sulfoxide | 0.239 | 0.203 | 0.257 | 0.218 | 0.268 | 0.270 |
| Ditalimfos | 0.586 | 0.293 | 0.577 | 0.466 | 0.621 | 0.619 |
| EPBP | 0.443 | 0.293 | 0.439 | 0.351 | 0.477 | 0.479 |
| Ethion | 0.411 | 0.284 | 0.401 | 0.306 | 0.379 | 0.387 |
| Ethion monooxon | 0.347 | 0.231 | 0.342 | 0.291 | 0.349 | 0.353 |
| Etrimfos | 0.722 | 0.275 | 0.737 | 0.603 | 0.830 | 0.736 |
| Famphur | 3.358 | 2.496 | 3.541 | 2.025 | 1.562 | 2.622 |
| Fenitrothion | 0.420 | 0.294 | 0.495 | 0.328 | 0.518 | 0.428 |
| Fensulfothion | 0.250 | 0.186 | 0.260 | 0.223 | 0.265 | 0.253 |
| Fenthion | 0.350 | 0.205 | 0.320 | 0.267 | 0.337 | 0.320 |
| Fenthion sulfone | 0.612 | 0.486 | 0.682 | 0.450 | 0.596 | 0.550 |
| Fenthion sulfoxide | 0.309 | 0.230 | 0.331 | 0.257 | 0.303 | 0.286 |
| Formothion | 0.115 | 0.099 | 0.117 | 0.102 | 0.117 | 0.118 |
| Fosmethilan | 0.422 | 0.287 | 0.399 | 0.318 | 0.429 | 0.436 |
| Iodofenfos | 0.407 | 0.194 | 0.410 | 0.343 | 0.454 | 0.444 |
| IPSP | 0.226 | 0.169 | 0.222 | 0.197 | 0.242 | 0.238 |
| Isazophos-methyl | 0.274 | 0.185 | 0.283 | 0.198 | 0.276 | 0.265 |
| Isocarbophos | 0.427 | 0.249 | 0.438 | 0.317 | 0.472 | 0.406 |
| Isochlorthion | 0.430 | 0.299 | 0.400 | 0.299 | 0.457 | 0.391 |
| Isofenphos | 0.658 | 0.436 | 0.718 | 0.604 | 0.820 | 0.735 |
| Isothioate | 0.090 | 0.075 | 0.091 | 0.080 | 0.089 | 0.091 |
| Isoxathion | 0.438 | 0.340 | 0.462 | 0.362 | 0.439 | 0.476 |
| Leptophos | 0.468 | 0.328 | 0.439 | 0.418 | 0.518 | 0.482 |
| Lythidathion | 0.377 | 0.242 | 0.357 | 0.306 | 0.404 | 0.390 |
| Malathion | 0.472 | 0.388 | 0.580 | 0.475 | 0.588 | 0.562 |
| Malathion dicarboxylic acid | 0.869 | 0.448 | 0.739 | 0.627 | 0.685 | 0.675 |
| Mecarbam | 0.389 | 0.279 | 0.389 | 0.350 | 0.443 | 0.405 |
| Menazon | 0.362 | 0.269 | 0.351 | 0.299 | 0.330 | 0.321 |
| Merpofos | 0.330 | 0.214 | 0.352 | 0.276 | 0.367 | 0.362 |
| Methacrifos | 0.216 | 0.181 | 0.219 | 0.177 | 0.218 | 0.227 |
| Methidathion | 0.331 | 0.230 | 0.332 | 0.301 | 0.359 | 0.360 |
| Methyl parathion | 0.334 | 0.206 | 0.304 | 0.257 | 0.354 | 0.306 |
| Methyl phenkapton | 0.304 | 0.198 | 0.297 | 0.253 | 0.323 | 0.305 |
| Methylisocyanothion | 0.255 | 0.174 | 0.254 | 0.209 | 0.276 | 0.266 |
| Miral | 0.314 | 0.206 | 0.325 | 0.248 | 0.319 | 0.321 |
| Morphothion | 0.173 | 0.141 | 0.166 | 0.153 | 0.178 | 0.173 |
| Parathion | 0.427 | 0.285 | 0.373 | 0.357 | 0.434 | 0.396 |
| Phenkapton | 0.378 | 0.251 | 0.374 | 0.293 | 0.406 | 0.401 |
| Phenthoate | 0.492 | 0.288 | 0.469 | 0.419 | 0.492 | 0.488 |
| Phenthoate-acid | 0.377 | 0.217 | 0.362 | 0.313 | 0.376 | 0.365 |
| Phorate | 0.356 | 0.222 | 0.311 | 0.285 | 0.326 | 0.313 |
| Phorate sulfone | 0.198 | 0.138 | 0.191 | 0.164 | 0.197 | 0.196 |
| Phorate sulfoxide | 0.208 | 0.153 | 0.212 | 0.192 | 0.214 | 0.220 |
| Phosacetim | 0.924 | 0.628 | 0.965 | 0.591 | 0.811 | 0.909 |
| Phosalone | 0.454 | 0.287 | 0.451 | 0.341 | 0.454 | 0.444 |
| Phosmet | 0.306 | 0.222 | 0.297 | 0.254 | 0.316 | 0.319 |
| Phosnichlor | 0.327 | 0.203 | 0.355 | 0.239 | 0.351 | 0.325 |
| Phostebupirim | 0.252 | 0.212 | 0.266 | 0.217 | 0.256 | 0.249 |
| Phoxim | 0.385 | 0.301 | 0.394 | 0.306 | 0.393 | 0.401 |
| Phoxim-methyl | 0.329 | 0.265 | 0.335 | 0.259 | 0.327 | 0.325 |
| Piperophos | 0.394 | 0.268 | 0.415 | 0.346 | 0.427 | 0.415 |
| Pirimiphos ethyl | 0.512 | 0.409 | 0.561 | 0.391 | 0.551 | 0.538 |
| Pirimiphos-methyl | 0.344 | 0.263 | 0.377 | 0.279 | 0.355 | 0.342 |
| Primidophos | 0.542 | 0.371 | 0.612 | 0.422 | 0.598 | 0.520 |
| Propetamphos | 0.295 | 0.198 | 0.325 | 0.236 | 0.322 | 0.326 |
| Prothidathion | 0.315 | 0.220 | 0.316 | 0.266 | 0.315 | 0.307 |
| Prothiofos | 0.392 | 0.262 | 0.381 | 0.331 | 0.447 | 0.428 |
| Prothion | 0.224 | 0.178 | 0.220 | 0.187 | 0.227 | 0.232 |
| Prothoate | 0.280 | 0.196 | 0.285 | 0.242 | 0.276 | 0.294 |
| Pyrazophos | 2.028 | 1.526 | 1.996 | 1.730 | 1.705 | 1.343 |
| Pyridiphenthion | 0.593 | 0.380 | 0.637 | 0.538 | 0.682 | 0.669 |
| Quinalphos | 0.464 | 0.336 | 0.529 | 0.406 | 0.543 | 0.543 |
| Quinalphos-methyl | 1.027 | 0.955 | 1.071 | 0.677 | 1.066 | 1.106 |
| Quinitofos | 0.801 | 0.475 | 0.734 | 0.587 | 0.884 | 0.876 |
| Quinothion | 0.545 | 0.341 | 0.585 | 0.463 | 0.647 | 0.621 |
| Ronnel | 0.294 | 0.220 | 0.297 | 0.232 | 0.335 | 0.293 |
| Sophamide | 0.208 | 0.157 | 0.197 | 0.190 | 0.207 | 0.205 |
| Sulfotep | 0.274 | 0.191 | 0.277 | 0.231 | 0.295 | 0.294 |
| Sulprofos | 0.335 | 0.257 | 0.341 | 0.299 | 0.386 | 0.365 |
| Temephos | 1.893 | 1.443 | 2.045 | 1.401 | 1.320 | 1.884 |
| Temephos sulfoxide | 1.573 | 1.562 | 2.446 | 1.492 | 2.348 | 1.703 |
| Terbufos | 0.324 | 0.202 | 0.300 | 0.242 | 0.299 | 0.289 |
| Terbufos sulfone | 0.366 | 0.196 | 0.361 | 0.296 | 0.367 | 0.358 |
| Terbufos sulfoxide | 0.202 | 0.147 | 0.203 | 0.172 | 0.208 | 0.213 |
| Thiometon | 0.096 | 0.081 | 0.093 | 0.085 | 0.098 | 0.097 |
| Thionazin | 0.297 | 0.190 | 0.320 | 0.263 | 0.324 | 0.317 |
| Tolclofos-methyl | 0.260 | 0.205 | 0.305 | 0.234 | 0.316 | 0.306 |
| Triazofos | 0.496 | 0.424 | 0.524 | 0.405 | 0.535 | 0.540 |
| Trichloronat | 0.348 | 0.245 | 0.364 | 0.302 | 0.410 | 0.389 |
| 综合毒性效应值 | 73.705 | 52.636 | 75.063 | 60.498 | 74.167 | 74.072 |

附表5T2级土壤系统中有机磷农药优先控制评价清单

|  |  |  |
| --- | --- | --- |
| Compounds | 非靶标影响效应指标值评分 | 靶标影响效应指标值评分 |
| 1217-97-6 | 1.167 | 1.000 |
| 2524-04-1 | 0.833 | 2.000 |
| 2665-30-7 | 1.167 | 0.250 |
| 2668-92-0 | 1.500 | 0.250 |
| 2674-91-1 | 0.667 | 1.000 |
| 2703-13-1 | 1.167 | 1.000 |
| 2782-70-9 | 1.500 | 0.250 |
| 2953-29-9 | 0.667 | 2.000 |
| 31110-62-0 | 0.500 | 1.750 |
| 32345-29-2 | 1.000 | 1.000 |
| 328-04-1 | 1.333 | 0.500 |
| 333-40-4 | 0.833 | 0.750 |
| 5840-95-9 | 0.833 | 1.000 |
| 76960-87-7 | 0.833 | 1.500 |
| 83318-76-7 | 0.667 | 1.000 |
| Acephate | 0.333 | 2.000 |
| Acethion | 0.833 | 1.000 |
| Acetoxon | 0.667 | 1.000 |
| Akton | 1.500 | 0.750 |
| Amidithion | 0.500 | 1.000 |
| Aminofenitrothion | 1.167 | 1.000 |
| Amiprofos-methyl | 1.000 | 0.250 |
| Amiton | 1.000 | 1.000 |
| Anilofos | 1.500 | 0.750 |
| Aspon | 1.500 | 0.000 |
| Athidathion | 1.000 | 0.250 |
| Azamethiphos | 1.167 | 0.500 |
| Azethion | 0.667 | 1.000 |
| Azinphos-ethyl | 1.500 | 0.000 |
| Azinphos-methyl | 1.500 | 0.000 |
| Azothoate | 1.167 | 0.500 |
| Bensulide | 1.333 | 0.000 |
| Bensulide-Oxon | 1.167 | 0.000 |
| Bomyl | 0.833 | 1.000 |
| Bromophos | 1.500 | 1.000 |
| Bromophos-ethyl | 1.333 | 0.750 |
| Buminafos | 1.500 | 0.000 |
| Butamifos | 1.500 | 0.250 |
| Butathiofos | 1.500 | 0.000 |
| Butonate | 0.833 | 1.000 |
| Cadusafos | 1.000 | 1.000 |
| carbophenothion | 1.500 | 0.750 |
| Carbophenothion-methyl | 1.167 | 1.000 |
| Chlorethoxyphos | 1.500 | 1.000 |
| Chlorfenvinphos | 1.167 | 0.500 |
| Chlormephos | 0.833 | 1.750 |
| Chlorphoxim | 1.667 | 0.000 |
| Chlorprazophos | 1.667 | 0.000 |
| Chlorpyrifos | 1.333 | 0.500 |
| Chlorpyrifos-methyl | 1.500 | 1.000 |
| Chlorthion | 1.000 | 1.250 |
| Chlorthiophos I | 1.667 | 0.500 |
| Chlorthiophos II | 1.667 | 0.500 |
| Chlorthiophos III | 1.500 | 0.500 |
| cis-Azodrin | 0.667 | 1.000 |
| cis-Methocrotophos | 0.667 | 1.000 |
| Coumaphos | 1.500 | 0.000 |
| Coumaphos-oxon | 1.333 | 0.000 |
| Coumithioate | 1.833 | 0.000 |
| Crotoxyphos | 1.167 | 0.000 |
| Crufomate | 1.167 | 0.750 |
| Cyanofenphos | 1.500 | 0.000 |
| Cyanophos | 1.000 | 1.000 |
| Cyanthoate | 0.833 | 0.250 |
| Cythioate | 1.333 | 1.000 |
| DDVP | 0.667 | 1.500 |
| Demephion-O | 0.667 | 1.250 |
| Demephion-S | 0.667 | 1.750 |
| Demeton-O | 1.000 | 1.000 |
| Demeton-O-methyl | 1.000 | 1.250 |
| Demeton-S | 1.000 | 1.000 |
| Demeton-S-methyl | 0.833 | 1.250 |
| Demeton-S-methyl-sulfone | 0.667 | 1.000 |
| Demeton-S-sulfone | 1.000 | 1.000 |
| Dequest-2010 | 0.333 | 2.000 |
| Desbromoleptophos | 1.667 | 0.750 |
| Desmethylfenitrothion | 1.167 | 1.250 |
| Dialifor | 1.667 | 0.000 |
| Diamidafos | 0.667 | 1.000 |
| Diazinon | 1.167 | 0.250 |
| Diazoxon | 1.000 | 0.250 |
| Dichlofenthion | 1.333 | 0.500 |
| Dicrotophos | 0.500 | 1.250 |
| Dimethoate | 0.667 | 1.000 |
| Dimethoate-ethyl | 0.500 | 1.000 |
| Dimethyl chlorothiophosphate | 0.500 | 2.000 |
| Dioxabenzofos | 1.167 | 1.000 |
| Dioxathion | 1.500 | 0.500 |
| Diphenprofos | 1.667 | 0.000 |
| Disulfoton | 1.167 | 1.000 |
| Disulfoton sulfone | 0.833 | 1.000 |
| Disulfoton sulfone oxygen analog | 1.000 | 1.000 |
| Disulfoton sulfoxide | 0.833 | 1.000 |
| Ditalimfos | 1.167 | 0.000 |
| DMCP | 0.833 | 1.000 |
| Edifenphos | 1.333 | 0.250 |
| E-Mevinphos | 0.667 | 1.000 |
| Endothion | 0.667 | 1.000 |
| EPBP | 1.500 | 0.000 |
| Ethephon | 0.167 | 2.000 |
| Ethion | 1.333 | 0.500 |
| Ethion monooxon | 1.333 | 0.000 |
| Ethion-dioxon | 1.167 | 0.250 |
| Ethoprop | 1.167 | 1.000 |
| Ethyl-hydrogen-1-propylphosphonate | 0.333 | 2.000 |
| Etrimfos | 1.000 | 0.500 |
| Famphur | 1.333 | 1.250 |
| Fenamiphos | 1.167 | 0.250 |
| Fenamiphos-sulfone | 1.167 | 0.000 |
| Fenamiphos-sulfoxide | 1.167 | 0.000 |
| Fenitrothion | 1.000 | 1.250 |
| Fensulfothion | 1.000 | 0.000 |
| Fenthion | 1.333 | 1.000 |
| Fenthion sulfone | 0.833 | 1.000 |
| Fenthion sulfoxide | 0.833 | 1.000 |
| Fenthion-oxon | 1.000 | 1.000 |
| Fenthion-oxon-sulfone | 0.833 | 0.500 |
| Fenthion-oxon-sulfoxide | 0.833 | 0.750 |
| Fonofos-oxon | 0.833 | 1.000 |
| Formothion | 0.667 | 1.000 |
| Fosmethilan | 1.667 | 0.250 |
| Fospirate | 1.167 | 1.000 |
| Fosthiazate | 1.167 | 1.000 |
| Fosthietan | 0.833 | 1.000 |
| Heptenophos | 0.833 | 1.000 |
| Hexylthiofos | 1.000 | 1.000 |
| Imicyafos | 1.333 | 0.500 |
| Inezin | 1.000 | 0.000 |
| Iodofenfos | 1.167 | 1.000 |
| Iprobenfos | 1.167 | 1.000 |
| IPSP | 0.833 | 1.000 |
| Isazophos-methyl | 1.000 | 1.250 |
| Isocarbophos | 1.500 | 0.750 |
| Isochlorthion | 1.167 | 1.250 |
| Isofenphos | 1.500 | 0.000 |
| Isomalathion | 1.167 | 0.250 |
| Isosumithion | 1.167 | 1.250 |
| Isothioate | 1.000 | 1.000 |
| Isoxathion | 1.500 | 0.000 |
| Leptophos | 1.667 | 0.250 |
| Leptophos-oxon | 1.667 | 0.250 |
| Lythidathion | 1.000 | 0.500 |
| Malaoxon | 1.167 | 0.250 |
| Malathion | 0.833 | 0.250 |
| Malathion dicarboxylic acid | 1.000 | 1.000 |
| Mecarbam | 1.000 | 0.250 |
| Menazon | 1.000 | 1.000 |
| Mephosfolan | 1.000 | 1.000 |
| Merpofos | 1.333 | 0.500 |
| Methacrifos | 0.833 | 1.000 |
| Methamidophos | 0.167 | 2.000 |
| Methidathion | 0.833 | 1.000 |
| Methyl parathion | 1.000 | 1.000 |
| Methyl phenkapton | 1.500 | 0.750 |
| Methylisocyanothion | 1.000 | 1.000 |
| Methyl-paraoxon | 1.167 | 1.000 |
| Miral | 1.167 | 0.250 |
| Monocrotophos | 0.667 | 1.000 |
| Morphothion | 0.667 | 1.000 |
| Naled | 1.000 | 1.250 |
| Naphthalophos | 1.333 | 0.250 |
| Omethoate | 0.667 | 1.000 |
| Oxydemeton-methyl | 0.667 | 1.000 |
| Paraoxon | 1.000 | 0.750 |
| Parathion | 1.333 | 0.750 |
| Phenkapton | 1.667 | 0.500 |
| Phenthoate | 1.667 | 0.250 |
| Phenthoate-acid | 1.000 | 1.000 |
| Phorate | 1.167 | 1.000 |
| Phorate sulfone | 0.833 | 1.000 |
| Phorate sulfoxide | 1.000 | 1.000 |
| Phoratoxon-sulfoxide | 0.833 | 1.000 |
| Phosacetim | 2.000 | 0.250 |
| Phosalone | 1.500 | 0.000 |
| Phosfolan | 0.833 | 1.000 |
| Phosmet | 1.500 | 0.250 |
| Phosmetoxon | 1.167 | 0.500 |
| Phosnichlor | 1.000 | 1.250 |
| Phosphamidon | 0.833 | 1.000 |
| Phostebupirim | 1.667 | 0.000 |
| Phoxim | 1.833 | 0.000 |
| Phoxim-methyl | 1.833 | 0.250 |
| Piperophos | 1.333 | 0.000 |
| Pirimiphos ethyl | 1.500 | 0.250 |
| Pirimiphos-methyl | 1.500 | 0.500 |
| Primidophos | 1.167 | 0.250 |
| Profenofos | 1.500 | 0.500 |
| Propaphos | 1.333 | 0.250 |
| Propetamphos | 0.833 | 1.000 |
| Propoxon | 1.167 | 0.750 |
| Prothidathion | 1.500 | 0.000 |
| Prothiofos | 1.333 | 0.750 |
| Prothion | 1.000 | 1.000 |
| Prothoate | 0.667 | 1.000 |
| Pyraclofos | 1.500 | 0.000 |
| Pyrazophos | 1.500 | 0.500 |
| Pyridiphenthion | 1.167 | 0.000 |
| Quinalphos | 1.500 | 0.250 |
| Quinalphos-methyl | 1.167 | 1.000 |
| Quinitofos | 1.833 | 0.000 |
| Quinothion | 1.500 | 0.000 |
| Ronnel | 1.333 | 1.000 |
| Sophamide | 0.500 | 1.000 |
| Sulfotep | 1.167 | 1.000 |
| Sulprofos | 1.333 | 0.500 |
| Sulprofos-oxon | 1.167 | 0.500 |
| Temephos | 1.667 | 0.500 |
| Temephos sulfoxide | 1.167 | 0.500 |
| TEPP | 0.833 | 1.000 |
| Terbufos | 1.167 | 1.000 |
| Terbufos sulfone | 0.667 | 1.000 |
| Terbufos sulfoxide | 1.000 | 1.000 |
| Terbufos-oxon-sulfone | 0.667 | 1.000 |
| Tetrachlorvinphos-E | 1.000 | 1.000 |
| Tetrachlorvinphos-Z | 1.167 | 1.000 |
| Thiometon | 0.833 | 1.250 |
| Thionazin | 1.000 | 1.000 |
| Thionazin-oxon | 0.667 | 1.000 |
| Tolclofos-methyl | 1.167 | 1.250 |
| Triazofos | 1.333 | 0.000 |
| Tribufos | 1.333 | 0.750 |
| Trichlorfon | 0.500 | 1.750 |
| Trichloronat | 1.500 | 0.750 |
| Vamidothion | 0.500 | 1.000 |
| Z-Mevinphos | 0.667 | 1.000 |

附表6T3级农业土壤生态系统中有机磷农药优先控制评价清单

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Compounds | 蜜蜂毒性效应指标值评分 | 蚯蚓毒性效应指标值评分 | 土壤微生物毒性效应指标值评分 | 土壤酶活性影响效应指标值评分 | 土壤理化性质影响效应指标值评分 | 植物毒性效应指标值评分 | 褐飞虱毒性效应指标值评分 | 小菜蛾毒性效应指标值评分 | 麦蚜性毒性应指标值评分 | 二化螟毒性效应指标值评分 |
| 1217-97-6 | 0 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| 2524-04-1 | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 2 | 2 | 2 |
| 2665-30-7 | 0 | 2 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 0 |
| 2668-92-0 | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| 2674-91-1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 2703-13-1 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| 2782-70-9 | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 0 |
| 2953-29-9 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 2 | 2 | 2 |
| 31110-62-0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 1 | 2 |
| 32345-29-2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 328-04-1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 1 | 0 |
| 333-40-4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 5840-95-9 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 76960-87-7 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| 83318-76-7 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Acephate | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Acethion | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Acetoxon | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Akton | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 1 |
| Amidithion | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Aminofenitrothion | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Amiprofos-methyl | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Amiton | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Anilofos | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 1 |
| Aspon | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Athidathion | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Azamethiphos | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 0 |
| Azethion | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Azinphos-ethyl | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Azinphos-methyl | 1 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Azothoate | 2 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 0 |
| Bensulide | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Bensulide-Oxon | 2 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Bomyl | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Bromophos | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Bromophos-ethyl | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 1 |
| Buminafos | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Butamifos | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| Butathiofos | 2 | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| Butonate | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Cadusafos | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| carbophenothion | 1 | 2 | 0 | 2 | 2 | 2 | 1 | 1 | 1 | 0 |
| Carbophenothion-methyl | 2 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Chlorethoxyphos | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Chlorfenvinphos | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 1 |
| Chlormephos | 0 | 0 | 1 | 0 | 2 | 2 | 2 | 2 | 1 | 2 |
| Chlorphoxim | 1 | 2 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| Chlorprazophos | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Chlorpyrifos | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Chlorpyrifos-methyl | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Chlorthion | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Chlorthiophos I | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Chlorthiophos II | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Chlorthiophos III | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| cis-Azodrin | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| cis-Methocrotophos | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Coumaphos | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Coumaphos-oxon | 1 | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Coumithioate | 2 | 2 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| Crotoxyphos | 2 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Crufomate | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| Cyanofenphos | 1 | 2 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 |
| Cyanophos | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cyanthoate | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Cythioate | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| DDVP | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 2 | 1 |
| Demephion-O | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 |
| Demephion-S | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 2 | 1 | 2 |
| Demeton-O | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Demeton-O-methyl | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Demeton-S | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Demeton-S-methyl | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 1 |
| Demeton-S-methyl-sulfone | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Demeton-S-sulfone | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Dequest-2010 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Desbromoleptophos | 0 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 0 | 0 |
| Desmethylfenitrothion | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Dialifor | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Diamidafos | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Diazinon | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Diazoxon | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Dichlofenthion | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Dicrotophos | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 1 |
| Dimethoate | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Dimethoate-ethyl | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Dimethyl chlorothiophosphate | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 2 | 2 | 2 |
| Dioxabenzofos | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Dioxathion | 1 | 2 | 0 | 2 | 2 | 2 | 0 | 1 | 1 | 0 |
| Diphenprofos | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Disulfoton | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Disulfoton sulfone | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Disulfoton sulfone oxygen analog | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Disulfoton sulfoxide | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ditalimfos | 1 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| DMCP | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Edifenphos | 1 | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |
| E-Mevinphos | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Endothion | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 1 |
| EPBP | 1 | 2 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 |
| Ethephon | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Ethion | 1 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 0 |
| Ethion monooxon | 1 | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| Ethion-dioxon | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Ethoprop | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Ethyl-hydrogen-1-propylphosphonate | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Etrimfos | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Famphur | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 2 | 2 | 1 |
| Fenamiphos | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Fenamiphos-sulfone | 1 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Fenamiphos-sulfoxide | 1 | 2 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Fenitrothion | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Fensulfothion | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Fenthion | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Fenthion sulfone | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Fenthion sulfoxide | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| Fenthion-oxon | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fenthion-oxon-sulfone | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| Fenthion-oxon-sulfoxide | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| Fonofos-oxon | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Formothion | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Fosmethilan | 1 | 2 | 2 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| Fospirate | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fosthiazate | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fosthietan | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| Heptenophos | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hexylthiofos | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Imicyafos | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 |
| Inezin | 0 | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Iodofenfos | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Iprobenfos | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 1 | 1 |
| IPSP | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Isazophos-methyl | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Isocarbophos | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 1 |
| Isochlorthion | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| Isofenphos | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Isomalathion | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| Isosumithion | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Isothioate | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Isoxathion | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Leptophos | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 |
| Leptophos-oxon | 1 | 2 | 1 | 2 | 2 | 2 | 0 | 1 | 0 | 0 |
| Lythidathion | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| Malaoxon | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| Malathion | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| Malathion dicarboxylic acid | 1 | 2 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 |
| Mecarbam | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Menazon | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Mephosfolan | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Merpofos | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Methacrifos | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Methamidophos | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Methidathion | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Methyl parathion | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Methyl phenkapton | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 0 | 1 |
| Methylisocyanothion | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Methyl-paraoxon | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Miral | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Monocrotophos | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Morphothion | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Naled | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Naphthalophos | 1 | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |
| Omethoate | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Oxydemeton-methyl | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Paraoxon | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| Parathion | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 |
| Phenkapton | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 0 | 0 |
| Phenthoate | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 |
| Phenthoate-acid | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Phorate | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Phorate sulfone | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Phorate sulfoxide | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Phoratoxon-sulfoxide | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Phosacetim | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 1 | 0 | 0 |
| Phosalone | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Phosfolan | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Phosmet | 2 | 2 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| Phosmetoxon | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 0 |
| Phosnichlor | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Phosphamidon | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Phostebupirim | 2 | 2 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| Phoxim | 2 | 2 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| Phoxim-methyl | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 1 | 0 | 0 |
| Piperophos | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Pirimiphos ethyl | 2 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 |
| Pirimiphos-methyl | 2 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 1 |
| Primidophos | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| Profenofos | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Propaphos | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| Propetamphos | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Propoxon | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 1 | 0 |
| Prothidathion | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Prothiofos | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 1 |
| Prothion | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Prothoate | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Pyraclofos | 2 | 2 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Pyrazophos | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 1 |
| Pyridiphenthion | 1 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Quinalphos | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| Quinalphos-methyl | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 |
| Quinitofos | 1 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| Quinothion | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| Ronnel | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |
| Sophamide | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Sulfotep | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Sulprofos | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 |
| Sulprofos-oxon | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| Temephos | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 0 |
| Temephos sulfoxide | 2 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 1 |
| TEPP | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Terbufos | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Terbufos sulfone | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Terbufos sulfoxide | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Terbufos-oxon-sulfone | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| Tetrachlorvinphos-E | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Tetrachlorvinphos-Z | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Thiometon | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 |
| Thionazin | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Thionazin-oxon | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Tolclofos-methyl | 1 | 0 | 2 | 0 | 2 | 2 | 1 | 2 | 1 | 1 |
| Triazofos | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Tribufos | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 |
| Trichlorfon | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 2 | 2 |
| Trichloronat | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 1 |
| Vamidothion | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| Z-Mevinphos | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |