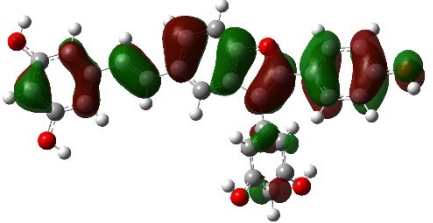
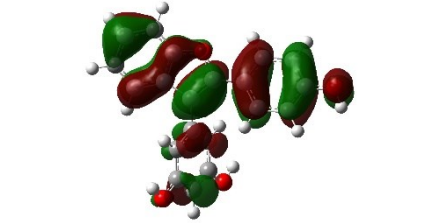
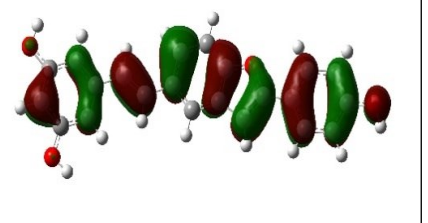
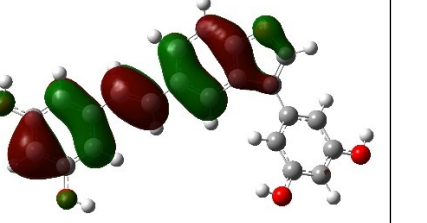
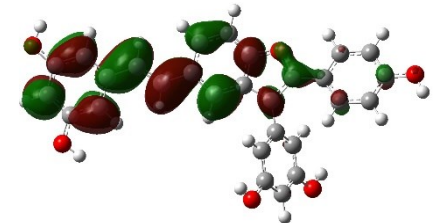
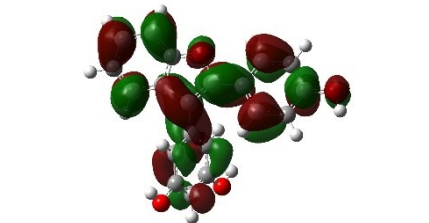
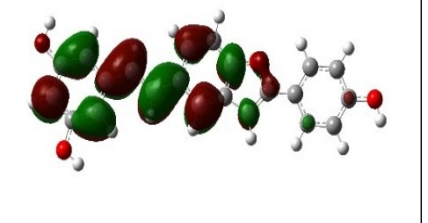
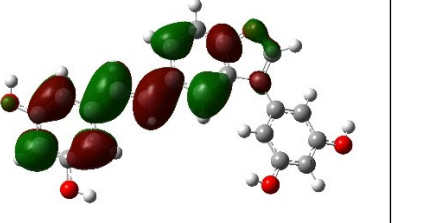
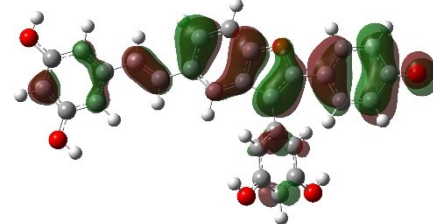
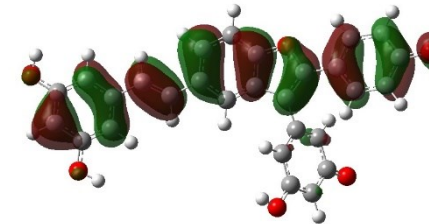
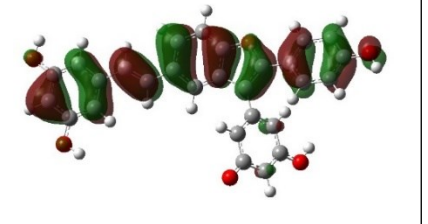
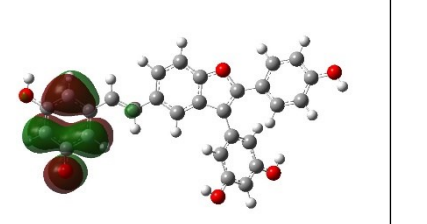
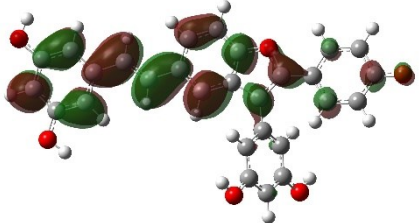
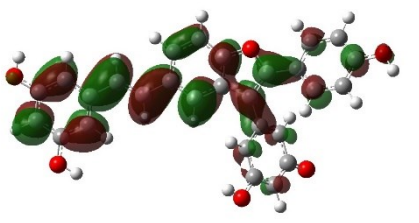
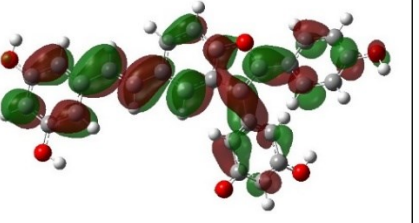
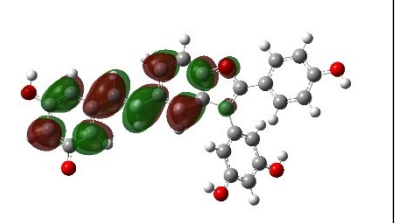
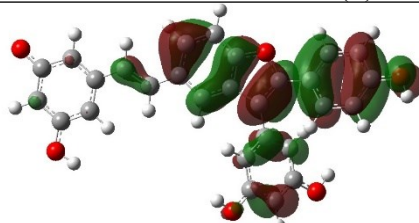
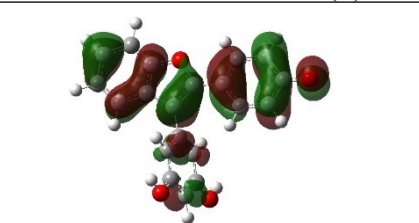
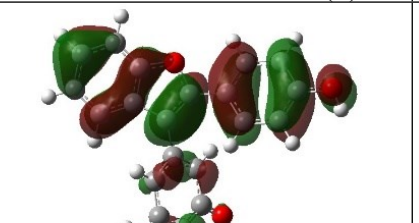
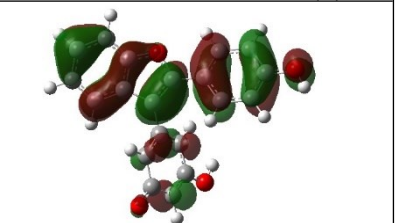
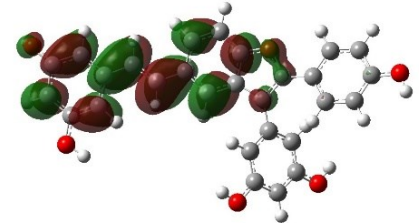
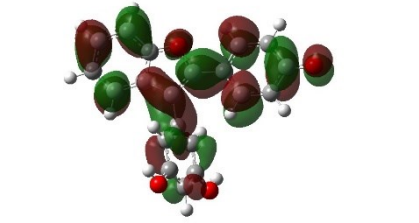
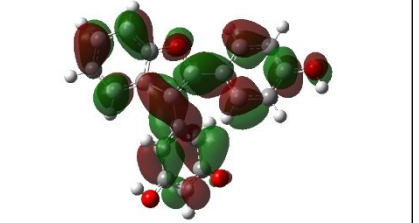
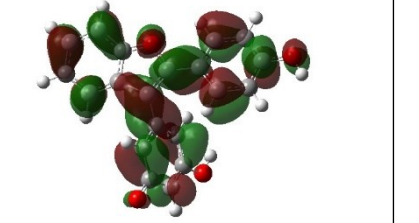
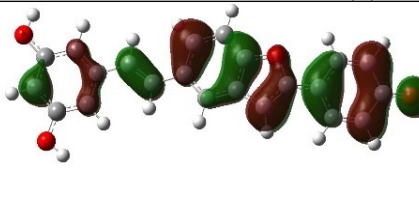
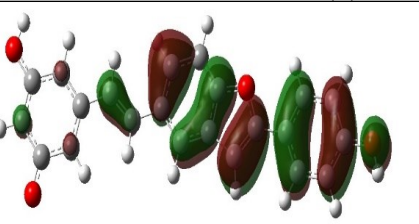
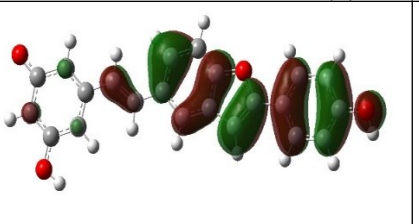
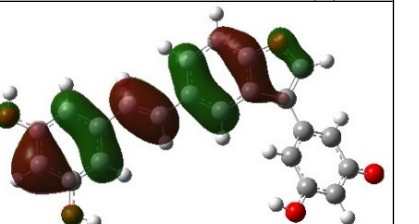


Fig. S1. The state forms of studied compounds 1-4 in studied media at B3LYP/6-311G(d,p) level of theory

| | | | |
|--|---|--|--|
|  |  |  |  |
| HOMO-neutral (1) | HOMO-neutral (2) | HOMO-neutral (3) | HOMO-neutral (4) |
|  |  |  |  |
| LUMO-neutral (1) | LUMO-neutral (2) | LUMO-neutral (3) | LUMO-neutral (4) |
|  |  |  |  |
| HOMO-4'-OH radical (1) | HOMO-3''-OH radical (1) | HOMO-5'''-OH radical (1) | HOMO-3'''-OH radical (1) |

| | | | |
|---|--|---|---|
|  |  |  |  |
| LUMO-4'-OH radical (1) | LUMO-3''-OH radical (1) | LUMO-5''-OH radical (1) | LUMO-3'''-OH radical (1) |
|  |  |  |  |
| HOMO-5'''-OH radical (1) | HOMO-4'-OH radical (2) | HOMO-3''-OH radical (2) | HOMO-5''-OH radical (2) |
|  |  |  |  |
| LUMO-5'''-OH radical (1) | LUMO-4'-OH radical (2) | LUMO-3''-OH radical (2) | LUMO-5''-OH radical (2) |
|  |  |  |  |
| HOMO-4'-OH radical (3) | HOMO-3'''-OH radical (3) | HOMO-5'''-OH radical (3) | HOMO-3''-OH radical (4) |

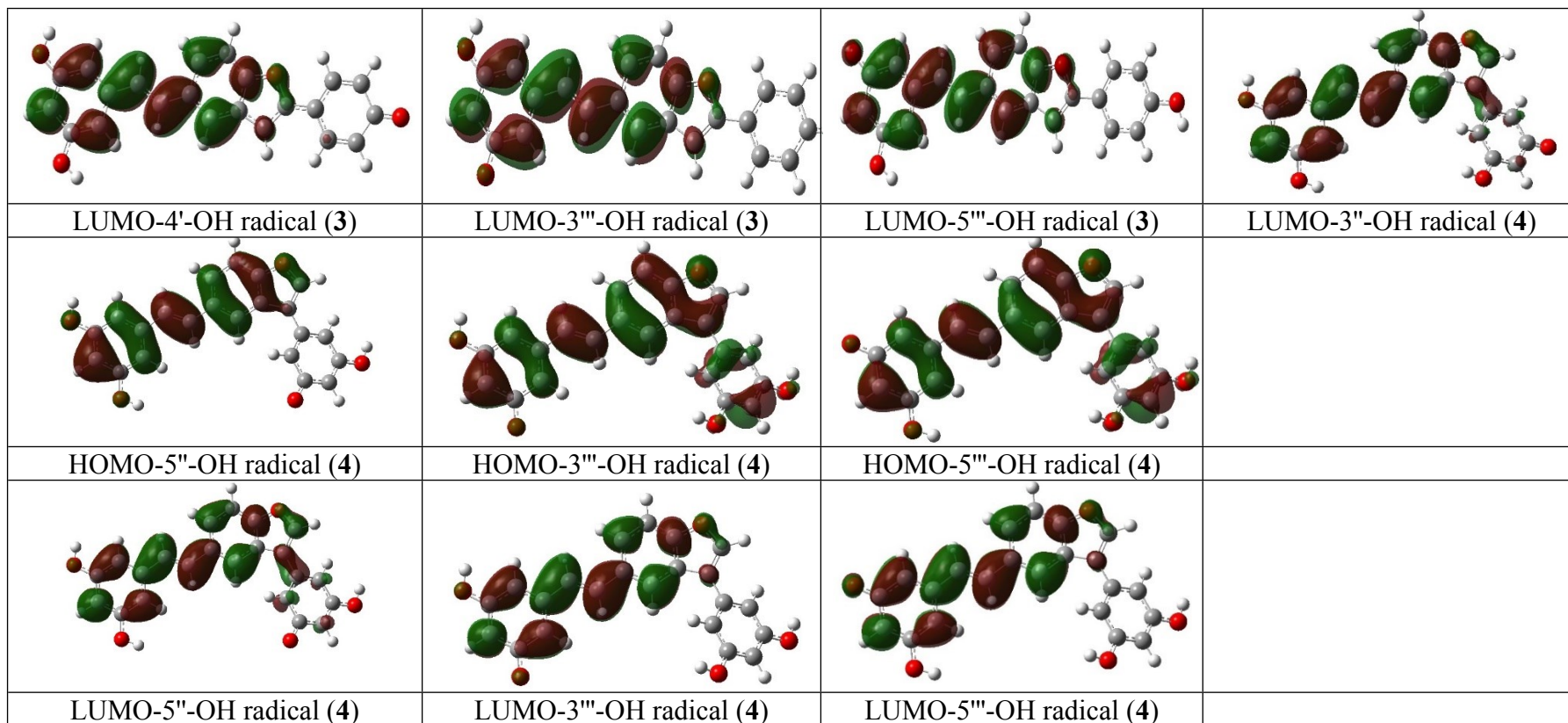


Fig. S2. HOMO and LUMO images of neutral and radical forms of compounds 1-4 in all studied mediums at B3LYP/6-311G(d,p) level of theory

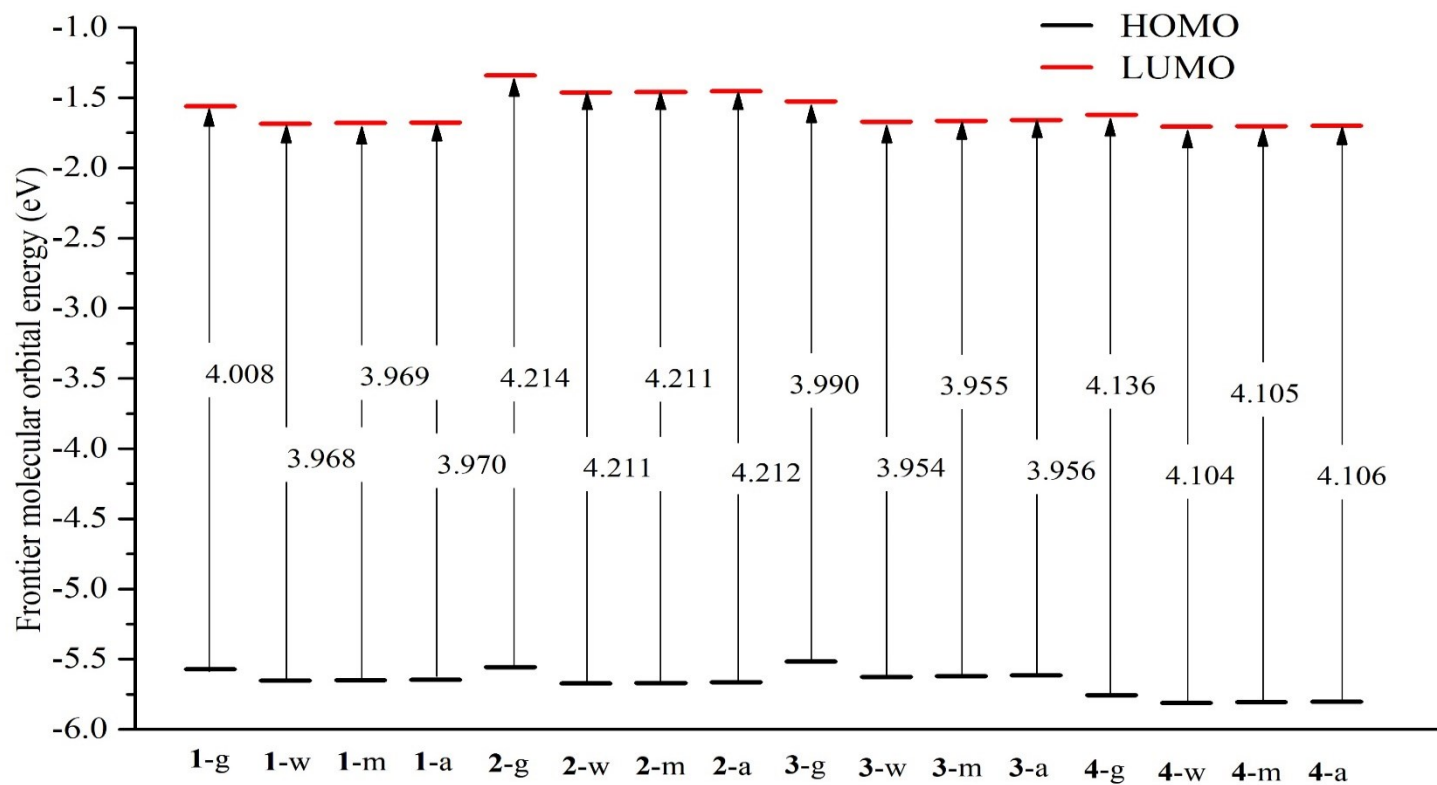


Fig. S3. $E_{\text{gap}} = E_{\text{L}} - E_{\text{H}}$ of the neutral structures **1-4** in four studied mediums at B3LYP/6-311G(d,p) level of theory

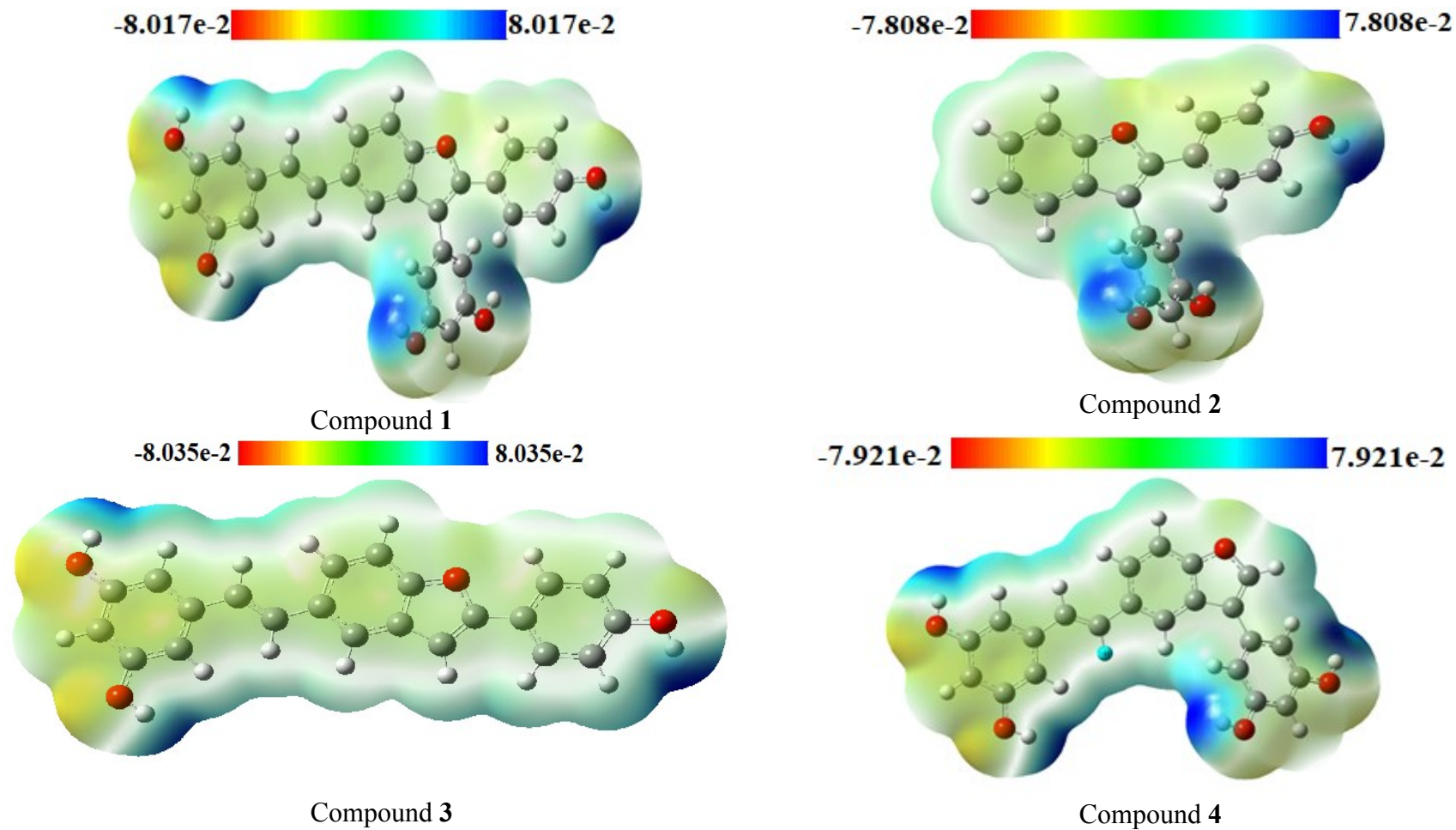
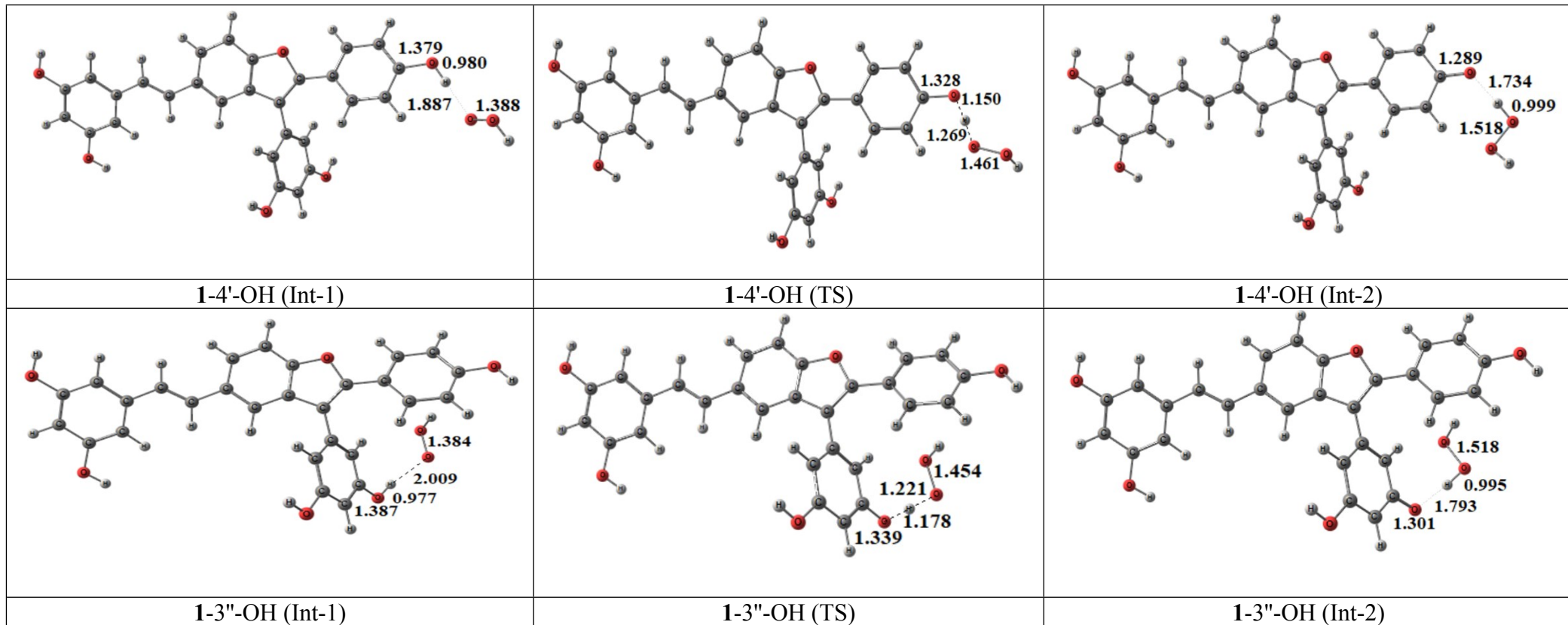
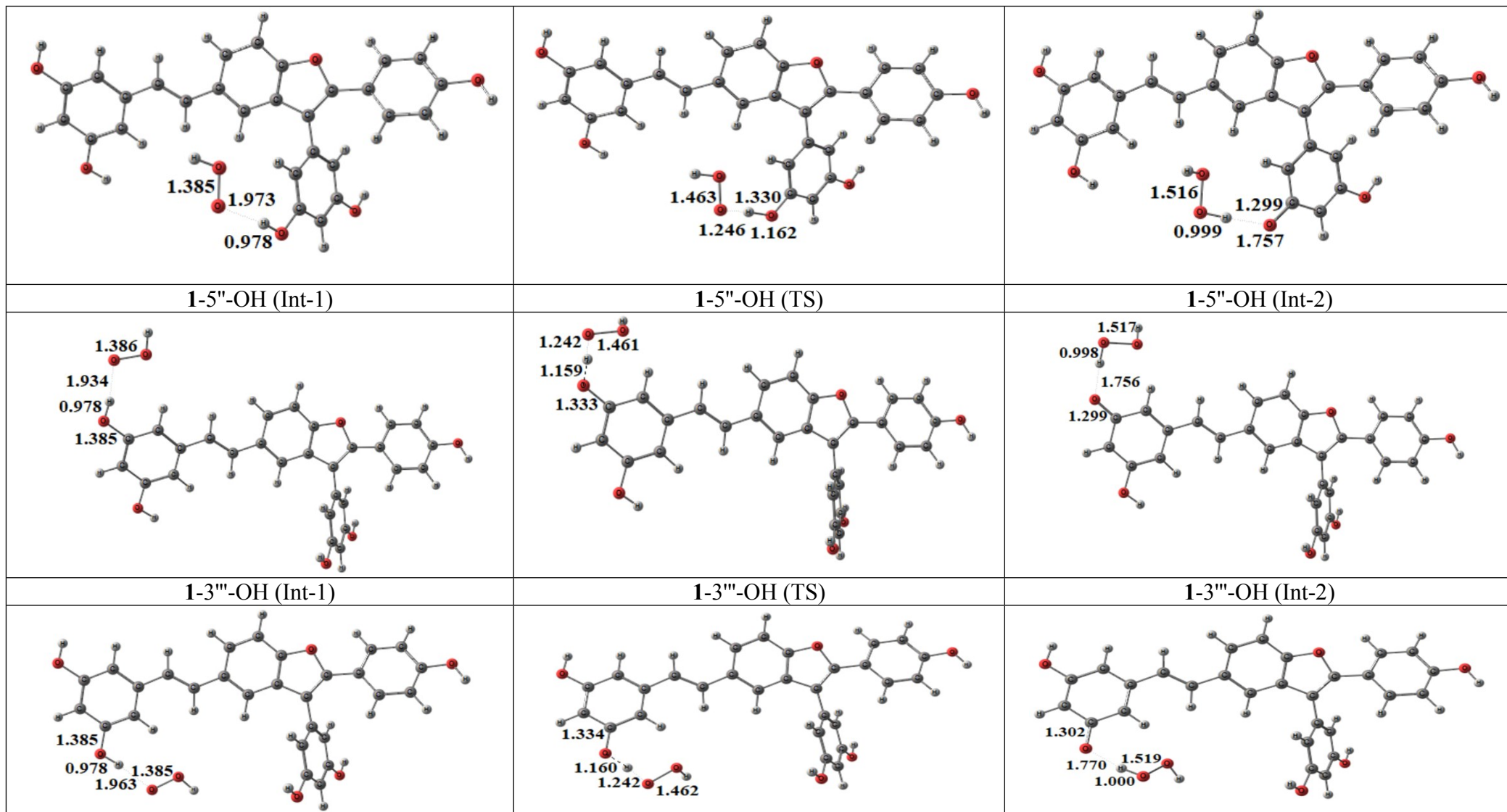
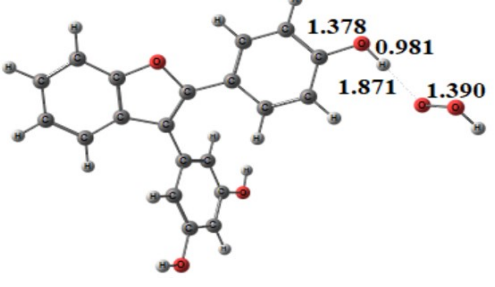
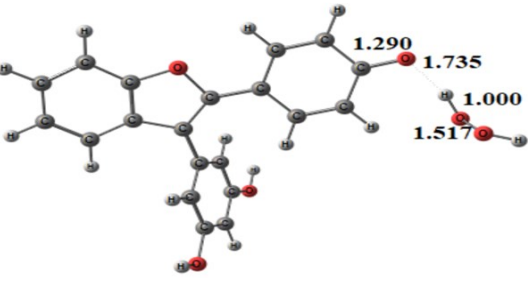
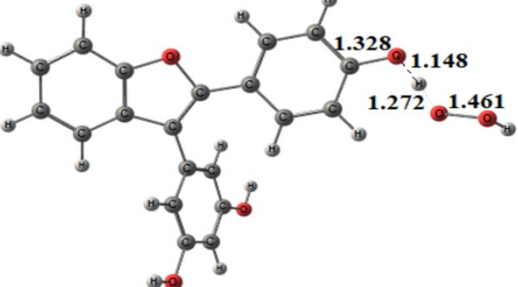
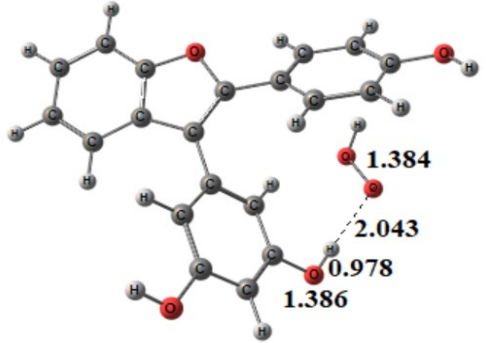
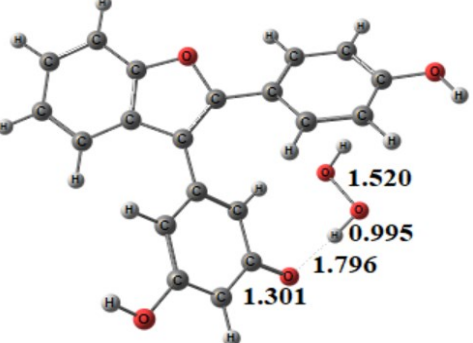
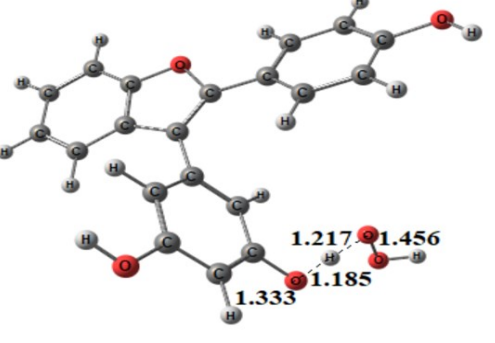
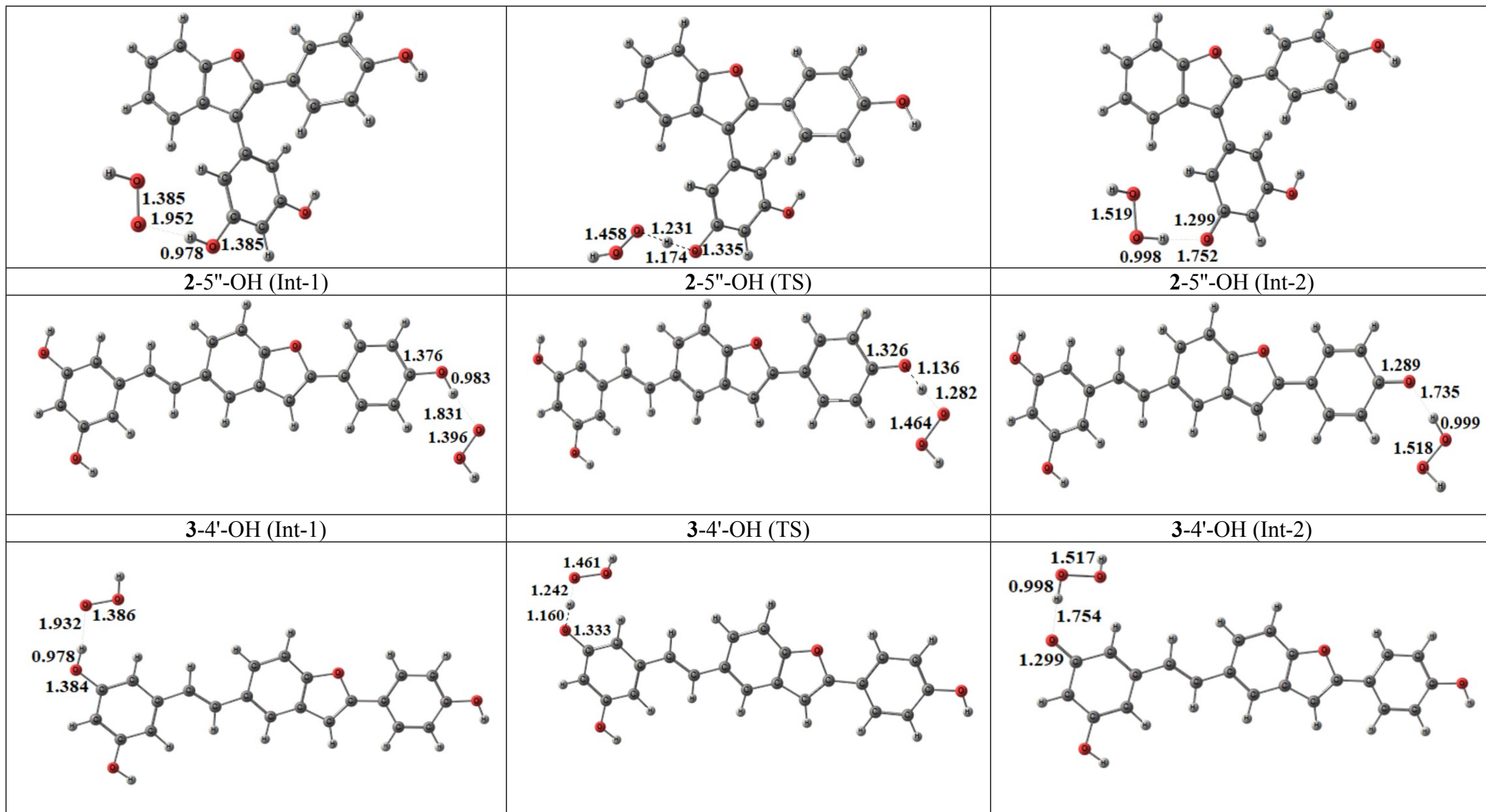


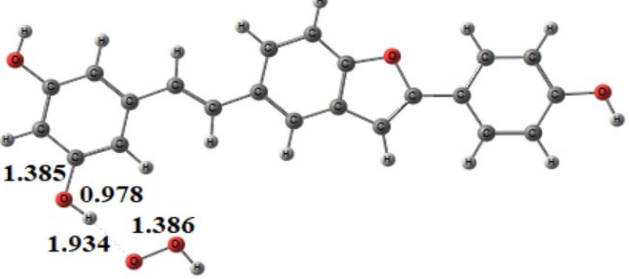
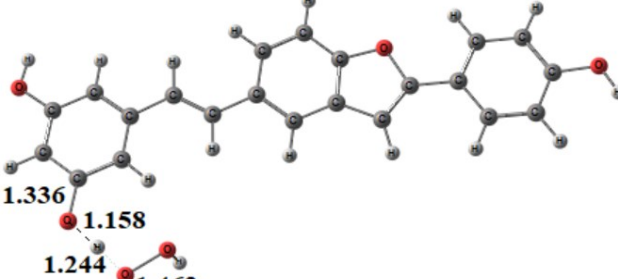
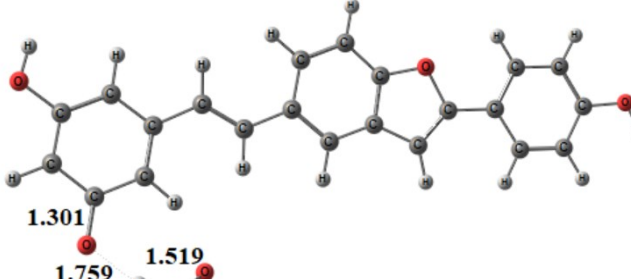
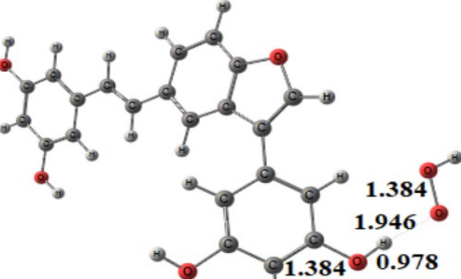
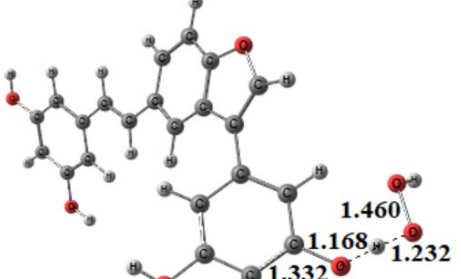
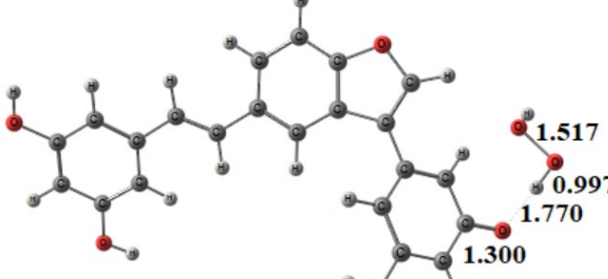
Fig. S4. Molecular electrostatic potential map on the isodensity surfaces in gaseous phase at B3LYP/6-311G(d,p) level of theory





| | | |
|---|--|---|
| <p>1-5'''-OH (Int-1)</p> | <p>1-5'''-OH (TS)</p> | <p>1-5'''-OH (Int-2)</p> |
|  |  |  |
| <p>2-4'-OH (Int-1)</p> | <p>2-4'-OH (TS)</p> | <p>2-4'-OH (Int-2)</p> |
|  |  |  |
| <p>2-3''-OH (Int-1)</p> | <p>2-3''-OH (TS)</p> | <p>2-3''-OH (Int-2)</p> |



| | | |
|---|--|---|
| <p>3-3'''-OH (Int-1)</p> | <p>3-3'''-OH (TS)</p> | <p>3-3'''-OH (Int-2)</p> |
|  |  |  |
| <p>3-5'''-OH (Int-1)</p> | <p>3-5'''-OH (TS)</p> | <p>3-5'''-OH (Int-2)</p> |
|  |  |  |
| <p>4-3'''-OH (Int-1)</p> | <p>4-3'''-OH (TS)</p> | <p>4-3'''-OH (Int-2)</p> |

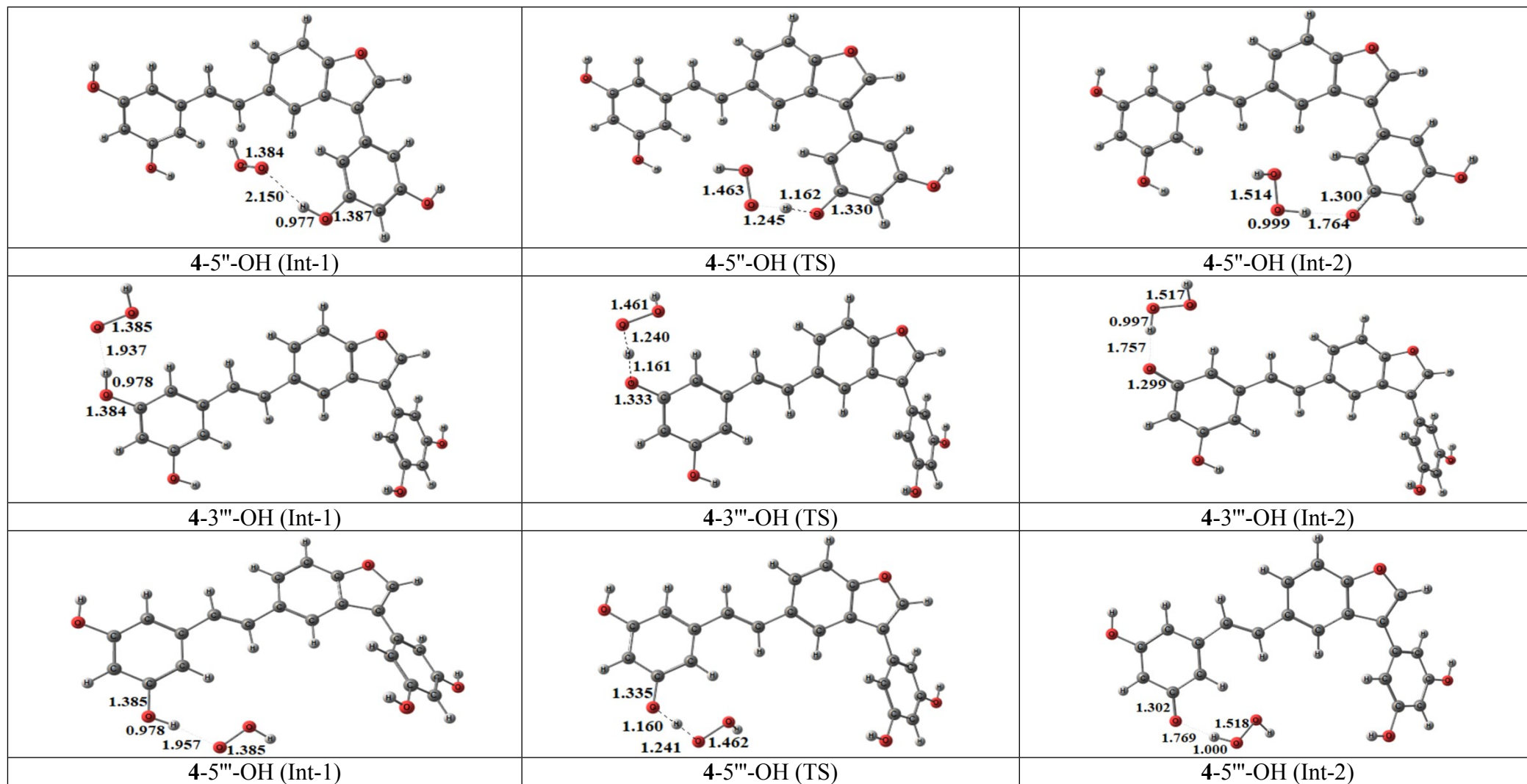


Fig. S5. The optimized structures of intermediates and transition states of HOO[•] attack to the compounds **1-4** at B3LYP/6-311G(d,p) level

Table S1 Optimized bond distances and dihedral angles (θ) of studied compounds **1-4** in mediums gas, methanol, water and acetone at B3LYP/6-311G(d,p) level of theory

| No | | Bond lengths | | | | | Dihedral angles | |
|----|----------|--------------|-----------|-----------|------------|------------|-------------------------------------|---------------------------------------|
| | | 4' (O-H) | 3'' (O-H) | 5'''(O-H) | 3''''(O-H) | 5''''(O-H) | $\theta_{11}(\text{C3-C2-C1'-C2'})$ | $\theta_{12}(\text{C2-C3-C1''-C2''})$ |
| 1 | Gas | 0.963 | 0.963 | 0.963 | 0.963 | 0.963 | -22.0 | -57.3 |
| | Water | 0.965 | 0.964 | 0.964 | 0.964 | 0.964 | -24.7 | -55.0 |
| | Methanol | 0.965 | 0.964 | 0.964 | 0.964 | 0.964 | -24.6 | -55.2 |
| | Acetone | 0.965 | 0.964 | 0.964 | 0.964 | 0.964 | -24.4 | -55.4 |
| 2 | Gas | 0.963 | 0.963 | 0.963 | | | -21.4 | -57.9 |
| | Water | 0.965 | 0.965 | 0.964 | | | -23.8 | -55.3 |
| | Methanol | 0.965 | 0.964 | 0.964 | | | -23.8 | -55.4 |
| | Acetone | 0.965 | 0.964 | 0.964 | | | -23.7 | -55.5 |
| 3 | Gas | 0.963 | | | 0.963 | 0.963 | 0.0 | |
| | Water | 0.965 | | | 0.965 | 0.965 | 0.0 | |
| | Methanol | 0.965 | | | 0.965 | 0.965 | 0.0 | |
| | Acetone | 0.965 | | | 0.965 | 0.965 | 0.0 | |
| 4 | Gas | | 0.963 | 0.963 | 0.963 | 0.963 | | -42.8 |
| | Water | | 0.965 | 0.964 | 0.964 | 0.964 | | -38.1 |
| | Methanol | | 0.965 | 0.964 | 0.964 | 0.964 | | -38.7 |
| | Acetone | | 0.965 | 0.964 | 0.964 | 0.964 | | -39.1 |

Table S2 The optimized energies versus torsional angles (θ) at B3LYP/6-311G(d) level of theory

| Degree | $\theta_{11}(\text{C3-C2-C1'-C2'})$ | | $\theta_{12}(\text{C2-C3-C1''-C2''})$ | | $\theta_{11}(\text{C3-C2-C1'-C2'})$ | | $\theta_{12}(\text{C2-C3-C1''-C2''})$ | |
|--------|-------------------------------------|--------------------------|---------------------------------------|--------------------------|-------------------------------------|--------------------------|---------------------------------------|--------------------------|
| | Compound 1 (au) | ΔE (kcal/mol) | Compound 1 (au) | ΔE (kcal/mol) | Compound 2 (au) | ΔE (kcal/mol) | Compound 2 (au) | ΔE (kcal/mol) |
| -180 | -1530.742395 | 0.40 | -1530.732391 | 6.68 | -1071.723044 | 0.39 | -1071.713396 | 6.44 |
| -170 | -1530.742799 | 0.15 | -1530.735894 | 4.48 | -1071.723433 | 0.14 | -1071.716714 | 4.36 |
| -160 | -1530.743036 | 0.00 | -1530.738923 | 2.58 | -1071.723661 | 0.00 | -1071.719716 | 2.47 |
| -150 | -1530.742762 | 0.17 | -1530.741127 | 1.19 | -1071.723385 | 0.17 | -1071.721833 | 1.14 |
| -140 | -1530.742092 | 0.59 | -1530.742367 | 0.42 | -1071.722752 | 0.57 | -1071.723073 | 0.37 |
| -130 | -1530.741009 | 1.27 | -1530.742965 | 0.04 | -1071.721622 | 1.28 | -1071.723604 | 0.03 |
| -120 | -1530.739643 | 2.13 | -1530.743029 | 0.00 | -1071.720278 | 2.12 | -1071.723656 | 0.00 |
| -110 | -1530.738174 | 3.05 | -1530.742781 | 0.16 | -1071.718813 | 3.04 | -1071.723423 | 0.15 |
| -100 | -1530.736816 | 3.90 | -1530.742505 | 0.33 | -1071.717482 | 3.88 | -1071.723126 | 0.33 |
| -90 | -1530.735946 | 4.45 | -1530.742381 | 0.41 | -1071.716584 | 4.44 | -1071.723039 | 0.39 |
| -80 | -1530.735661 | 4.63 | -1530.742552 | 0.30 | -1071.716318 | 4.61 | -1071.723177 | 0.30 |
| -70 | -1530.735995 | 4.42 | -1530.742826 | 0.13 | -1071.716607 | 4.43 | -1071.723465 | 0.12 |
| -60 | -1530.739955 | 1.93 | -1530.743029 | 0.00 | -1071.720596 | 1.92 | -1071.723656 | 0.00 |
| -50 | -1530.741287 | 1.10 | -1530.742904 | 0.08 | -1071.721911 | 1.10 | -1071.723558 | 0.06 |

| | | | | | | | | |
|-----|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| -40 | -1530.742316 | 0.45 | -1530.742229 | 0.50 | -1071.722989 | 0.42 | -1071.722925 | 0.46 |
| -30 | -1530.742907 | 0.08 | -1530.740876 | 1.35 | -1071.723517 | 0.09 | -1071.721573 | 1.31 |
| -20 | -1530.743036 | 0.00 | -1530.738631 | 2.76 | -1071.723661 | 0.00 | -1071.719408 | 2.67 |
| -10 | -1530.742799 | 0.15 | -1530.735629 | 4.64 | -1071.723420 | 0.15 | -1071.716430 | 4.53 |
| 0 | -1530.742401 | 0.40 | -1530.732040 | 6.90 | -1071.723061 | 0.38 | -1071.713016 | 6.68 |
| 10 | -1530.742799 | 0.15 | -1530.735651 | 4.63 | -1071.723420 | 0.15 | -1071.716460 | 4.52 |
| 20 | -1530.743036 | 0.00 | -1530.738620 | 2.77 | -1071.723661 | 0.00 | -1071.719412 | 2.66 |
| 30 | -1530.742907 | 0.08 | -1530.740843 | 1.37 | -1071.723517 | 0.09 | -1071.721548 | 1.32 |
| 40 | -1530.742316 | 0.45 | -1530.742177 | 0.53 | -1071.722989 | 0.42 | -1071.722873 | 0.49 |
| 50 | -1530.741287 | 1.10 | -1530.742841 | 0.12 | -1071.721911 | 1.10 | -1071.723504 | 0.10 |
| 60 | -1530.739955 | 1.93 | -1530.743029 | 0.00 | -1071.720597 | 1.92 | -1071.723602 | 0.00 |
| 70 | -1530.738537 | 2.82 | -1530.742760 | 0.17 | -1071.719164 | 2.82 | -1071.723396 | 0.16 |
| 80 | -1530.737259 | 3.63 | -1530.742493 | 0.34 | -1071.717906 | 3.61 | -1071.723124 | 0.33 |
| 90 | -1530.736384 | 4.17 | -1530.742336 | 0.43 | -1071.717017 | 4.17 | -1071.722998 | 0.41 |
| 100 | -1530.735944 | 4.45 | -1530.742445 | 0.37 | -1071.716603 | 4.43 | -1071.723075 | 0.36 |
| 110 | -1530.735986 | 4.42 | -1530.742711 | 0.20 | -1071.716600 | 4.43 | -1071.723352 | 0.19 |
| 120 | -1530.739643 | 2.13 | -1530.743029 | 0.00 | -1071.720278 | 2.12 | -1071.723656 | 0.00 |
| 130 | -1530.741009 | 1.27 | -1530.742904 | 0.08 | -1071.721622 | 1.28 | -1071.723553 | 0.06 |

| | | | | | | | | |
|--------|-------------------------------------|--------------------------|--------------|-------------|--------------|---------------------------------------|--------------------|--------------------------|
| 140 | -1530.742092 | 0.59 | -1530.742320 | 0.44 | -1071.722752 | 0.57 | -1071.723021 | 0.40 |
| 150 | -1530.742762 | 0.17 | -1530.741098 | 1.21 | -1071.723385 | 0.17 | -1071.721810 | 1.16 |
| 160 | -1530.743036 | 0.00 | -1530.738914 | 2.58 | -1071.723661 | 0.00 | -1071.719720 | 2.47 |
| 170 | -1530.742799 | 0.15 | -1530.735914 | 4.46 | -1071.723433 | 0.14 | -1071.716738 | 4.34 |
| 180 | -1530.742395 | 0.40 | -1530.732391 | 6.68 | -1071.723044 | 0.39 | -1071.713396 | 6.44 |
| Degree | $\theta_{11}(\text{C3-C2-C1'-C2'})$ | | | | | $\theta_{12}(\text{C2-C3-C1''-C2''})$ | | |
| | Compound 3 (au) | ΔE (kcal/mol) | | | | | Compound 4 (au) | ΔE (kcal/mol) |
| -180 | -1149.148565 | 0.00 | | | | | -1224.380416 | 2.75 |
| -170 | -1149.092597 | 0.06 | | | | | -1224.381332 | 2.18 |
| -160 | -1148.909979 | 0.24 | | | | | -1224.382857 | 1.22 |
| -150 | -1148.523069 | 0.63 | | | | | -1224.384265 | 0.34 |
| -140 | -1147.914680 | 1.23 | | | | | -1224.384799 | 0.00 |
| -130 | -1147.091162 | 2.06 | | | | | -1224.384700 | 0.06 |
| -120 | -1146.121446 | 3.03 | | | | | -1224.384085 | 0.45 |
| -110 | -1145.151630 | 4.00 | | | | | -1224.383295 | 0.94 |
| -100 | -1144.378281 | 4.77 | | | | | -1224.382613 | 1.37 |
| -90 | -1144.132837 | 5.02 | | | | | -1224.382399 | 1.51 |

| | | | | | | | | |
|-----|--------------|-------------|--|--|--|--|--------------|-------------|
| -80 | -1144.406005 | 4.74 | | | | | -1224.382651 | 1.35 |
| -70 | -1145.127383 | 4.02 | | | | | -1224.383314 | 0.93 |
| -60 | -1146.044859 | 3.10 | | | | | -1224.384057 | 0.47 |
| -50 | -1146.993716 | 2.15 | | | | | -1224.384682 | 0.07 |
| -40 | -1147.804420 | 1.34 | | | | | -1224.384799 | 0.00 |
| -30 | -1148.406076 | 0.74 | | | | | -1224.384354 | 0.28 |
| -20 | -1148.785958 | 0.36 | | | | | -1224.383257 | 0.97 |
| -10 | -1148.964070 | 0.18 | | | | | -1224.381693 | 1.95 |
| 0 | -1149.148565 | 0.00 | | | | | -1224.380417 | 2.75 |
| 10 | -1148.964102 | 0.18 | | | | | -1224.381507 | 2.07 |
| 20 | -1148.785877 | 0.36 | | | | | -1224.383257 | 0.97 |
| 30 | -1148.406089 | 0.74 | | | | | -1224.384354 | 0.28 |
| 40 | -1147.804420 | 1.34 | | | | | -1224.384799 | 0.00 |
| 50 | -1146.993703 | 2.15 | | | | | -1224.384682 | 0.07 |
| 60 | -1146.044871 | 3.10 | | | | | -1224.384086 | 0.45 |
| 70 | -1145.118341 | 4.03 | | | | | -1224.383332 | 0.92 |
| 80 | -1144.392482 | 4.76 | | | | | -1224.382651 | 1.35 |
| 90 | -1144.132843 | 5.02 | | | | | -1224.382398 | 1.51 |

| | | | | | | | | |
|-----|--------------|-------------|--|--|--|--|--------------|-------------|
| 100 | -1144.394603 | 4.75 | | | | | -1224.382613 | 1.37 |
| 110 | -1145.146460 | 4.00 | | | | | -1224.383279 | 0.95 |
| 120 | -1146.121440 | 3.03 | | | | | -1224.384057 | 0.47 |
| 130 | -1147.091155 | 2.06 | | | | | -1224.384700 | 0.06 |
| 140 | -1147.914680 | 1.23 | | | | | -1224.384799 | 0.00 |
| 150 | -1148.523032 | 0.63 | | | | | -1224.384265 | 0.34 |
| 160 | -1148.909948 | 0.24 | | | | | -1224.383068 | 1.09 |
| 170 | -1149.092616 | 0.06 | | | | | -1224.381505 | 2.07 |
| 180 | -1149.148565 | 0.00 | | | | | -1224.380416 | 2.75 |

Table S3 Chemical reactivity indices obtained using DFT method in the studied mediums at B3LYP/6-311G(d,p) level of theory

| No | Medium | η (eV) | χ (eV) | μ (eV) | ω (eV) | | | Polarizability (au) | E_{HOMO} (eV) | E_{LUMO} (eV) |
|----|----------|-------------|-------------|------------|---------------|------------|------------|---------------------|------------------------|------------------------|
| | | | | | ω | ω^- | ω^+ | | | |
| 1 | Gas | 2.004 | 3.566 | -3.566 | 3.172 | 5.206 | 1.640 | 394.760 | -5.570 | -1.562 |
| | Water | 1.984 | 3.669 | -3.669 | 3.393 | 5.476 | 1.806 | 525.107 | -5.653 | -1.685 |
| | Methanol | 1.985 | 3.665 | -3.665 | 3.384 | 5.465 | 1.800 | 520.533 | -5.649 | -1.680 |
| | Acetone | 1.985 | 3.661 | -3.661 | 3.376 | 5.454 | 1.793 | 516.088 | -5.646 | -1.676 |
| 2 | Gas | 2.107 | 3.449 | -3.449 | 2.823 | 4.811 | 1.362 | 247.853 | -5.556 | -1.342 |
| | Water | 2.105 | 3.568 | -3.568 | 3.023 | 5.071 | 1.503 | 339.324 | -5.673 | -1.463 |
| | Methanol | 2.106 | 3.563 | -3.563 | 3.015 | 5.060 | 1.497 | 336.008 | -5.669 | -1.458 |
| | Acetone | 2.106 | 3.559 | -3.559 | 3.007 | 5.049 | 1.491 | 332.801 | -5.664 | -1.453 |
| 3 | Gas | 1.995 | 3.522 | -3.522 | 3.109 | 5.119 | 1.597 | 323.816 | -5.517 | -1.527 |
| | Water | 1.977 | 3.648 | -3.648 | 3.365 | 5.436 | 1.788 | 425.582 | -5.625 | -1.671 |
| | Methanol | 1.977 | 3.642 | -3.642 | 3.354 | 5.423 | 1.780 | 422.234 | -5.620 | -1.665 |
| | Acetone | 1.978 | 3.637 | -3.637 | 3.344 | 5.410 | 1.773 | 418.961 | -5.615 | -1.659 |
| 4 | Gas | 2.068 | 3.688 | -3.688 | 3.288 | 5.390 | 1.703 | 294.364 | -5.756 | -1.620 |
| | Water | 2.052 | 3.758 | -3.758 | 3.441 | 5.576 | 1.819 | 395.357 | -5.810 | -1.706 |
| | Methanol | 2.052 | 3.754 | -3.754 | 3.435 | 5.568 | 1.814 | 391.815 | -5.806 | -1.702 |
| | Acetone | 2.052 | 3.751 | -3.751 | 3.429 | 5.560 | 1.810 | 388.396 | -5.803 | -1.699 |

Table S4 Condensed Fukui indices of studied compounds in the gaseous medium at B3LYP/6-311G(d,p) level of theory

| No | 1 | | | | 2 | | | | 3 | | | | 4 | | | |
|-------|---------|---------|---------|--------------|---------|---------|---------|--------------|---------|---------|---------|--------------|---------|---------|---------|--------------|
| | f_i^+ | f_i^- | f_i^o | Δf_i | f_i^+ | f_i^- | f_i^o | Δf_i | f_i^+ | f_i^- | f_i^o | Δf_i | f_i^+ | f_i^- | f_i^o | Δf_i |
| C-2 | 0.029 | 0.027 | 0.028 | 0.002 | 0.047 | 0.043 | 0.045 | 0.004 | 0.017 | 0.016 | 0.017 | 0.001 | 0.041 | 0.024 | 0.033 | 0.017 |
| C-3 | 0.033 | 0.022 | 0.028 | 0.011 | 0.040 | 0.046 | 0.043 | -0.006 | 0.051 | 0.042 | 0.047 | 0.009 | 0.011 | 0.013 | 0.012 | -0.002 |
| C-3a | -0.012 | -0.003 | -0.008 | -0.009 | -0.001 | -0.003 | -0.002 | 0.002 | -0.021 | -0.009 | -0.015 | -0.012 | -0.013 | -0.009 | -0.011 | -0.004 |
| C-4 | 0.055 | 0.028 | 0.042 | 0.026 | 0.051 | 0.040 | 0.046 | 0.011 | 0.060 | 0.030 | 0.045 | 0.030 | 0.049 | 0.051 | 0.050 | -0.002 |
| C-5 | -0.003 | -0.006 | -0.005 | 0.003 | 0.009 | 0.014 | 0.012 | -0.005 | -0.005 | 0.159 | 0.077 | -0.164 | -0.002 | -0.002 | -0.002 | 0.000 |
| C-6 | 0.008 | 0.040 | 0.024 | -0.032 | 0.036 | 0.043 | 0.040 | -0.007 | 0.008 | 0.041 | 0.025 | -0.033 | 0.015 | 0.013 | 0.014 | 0.002 |
| C-7 | 0.038 | 0.022 | 0.030 | 0.015 | 0.046 | 0.029 | 0.038 | 0.017 | 0.041 | 0.025 | 0.033 | 0.016 | 0.033 | 0.034 | 0.034 | -0.001 |
| C-7a | 0.010 | 0.034 | 0.022 | -0.024 | 0.002 | 0.016 | 0.009 | -0.014 | 0.013 | 0.038 | 0.026 | -0.025 | 0.032 | 0.019 | 0.026 | 0.013 |
| C-8 | 0.030 | 0.106 | 0.068 | -0.076 | | | | | 0.036 | 0.028 | 0.032 | 0.008 | 0.048 | 0.035 | 0.042 | 0.013 |
| C-9 | 0.035 | 0.031 | 0.033 | 0.004 | | | | | 0.038 | 0.034 | 0.036 | 0.004 | 0.053 | 0.043 | 0.048 | 0.010 |
| C-1' | -0.001 | 0.006 | 0.003 | -0.007 | 0.003 | 0.011 | 0.007 | -0.008 | -0.001 | 0.005 | 0.002 | -0.006 | | | | |
| C-2' | 0.021 | 0.019 | 0.020 | 0.002 | 0.036 | 0.029 | 0.033 | 0.007 | 0.020 | 0.022 | 0.021 | -0.002 | | | | |
| C-3' | 0.012 | 0.021 | 0.017 | -0.009 | 0.016 | 0.030 | 0.023 | -0.014 | 0.015 | 0.020 | 0.018 | -0.005 | | | | |
| C-4' | 0.029 | 0.019 | 0.024 | 0.010 | 0.044 | 0.027 | 0.036 | 0.017 | 0.030 | 0.021 | 0.026 | 0.009 | | | | |
| 4'-OH | 0.027 | 0.040 | -0.034 | -0.013 | 0.037 | 0.056 | -0.047 | -0.019 | 0.027 | 0.041 | -0.034 | -0.014 | | | | |
| C-5' | 0.002 | 0.022 | 0.012 | -0.020 | 0.017 | 0.030 | 0.024 | -0.013 | 0.012 | 0.023 | 0.018 | -0.011 | | | | |
| C-6' | 0.024 | 0.020 | 0.022 | 0.004 | 0.038 | 0.026 | 0.032 | 0.012 | 0.030 | 0.019 | 0.025 | 0.011 | | | | |
| C-1'' | -0.007 | -0.005 | -0.006 | -0.002 | -0.006 | -0.008 | -0.007 | 0.002 | | | | | 0.005 | 0.001 | 0.003 | 0.004 |

| | | | | | | | | | | | | | | | | |
|---------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-2" | 0.005 | 0.003 | 0.004 | 0.002 | 0.006 | 0.010 | 0.008 | -0.004 | | | | | 0.015 | 0.018 | 0.017 | -0.003 |
| C-3" | 0.001 | 0.001 | 0.001 | 0.000 | 0.002 | 0.001 | 0.001 | 0.001 | | | | | 0.003 | 0.004 | 0.004 | -0.001 |
| 3"-QH | 0.029 | 0.008 | 0.019 | -0.021 | 0.025 | 0.026 | 0.026 | -0.001 | | | | | 0.018 | 0.028 | 0.023 | -0.010 |
| C-4" | 0.025 | 0.022 | 0.024 | 0.003 | 0.038 | 0.040 | 0.039 | -0.002 | | | | | -0.195 | 0.037 | -0.079 | -0.232 |
| C-5" | 0.018 | 0.019 | 0.019 | -0.001 | 0.025 | 0.328 | 0.177 | -0.303 | | | | | 0.018 | 0.020 | 0.019 | -0.002 |
| 5"-QH | 0.003 | 0.002 | 0.002 | 0.001 | 0.005 | 0.004 | 0.004 | 0.001 | | | | | 0.003 | 0.001 | 0.002 | 0.002 |
| C-6" | 0.000 | 0.002 | 0.001 | -0.002 | 0.013 | 0.012 | 0.013 | 0.001 | | | | | 0.000 | 0.012 | 0.006 | -0.012 |
| C-1''' | -0.003 | -0.009 | -0.006 | 0.006 | | | | | -0.001 | -0.010 | -0.006 | 0.009 | -0.004 | -0.010 | -0.007 | 0.006 |
| C-2''' | 0.030 | 0.026 | 0.028 | 0.004 | | | | | 0.034 | 0.031 | 0.033 | 0.003 | 0.042 | 0.037 | 0.040 | 0.005 |
| C-3''' | 0.003 | 0.002 | 0.003 | 0.001 | | | | | 0.003 | 0.002 | 0.003 | 0.001 | 0.003 | 0.003 | 0.003 | 0.000 |
| 3'''-QH | 0.022 | 0.023 | 0.023 | -0.001 | | | | | 0.024 | 0.025 | 0.025 | -0.001 | 0.028 | 0.031 | 0.030 | -0.003 |
| C-4''' | 0.045 | 0.048 | 0.047 | -0.003 | | | | | 0.050 | 0.055 | 0.053 | -0.005 | 0.058 | 0.070 | 0.064 | -0.012 |
| C-5''' | 0.005 | 0.004 | 0.005 | 0.001 | | | | | 0.006 | 0.004 | 0.005 | 0.002 | 0.007 | 0.005 | 0.006 | 0.002 |
| 5'''-QH | 0.023 | 0.025 | 0.024 | -0.002 | | | | | 0.025 | 0.027 | 0.026 | -0.002 | 0.029 | 0.032 | 0.031 | -0.003 |
| C-6''' | 0.024 | 0.027 | 0.026 | -0.003 | | | | | 0.026 | 0.030 | 0.028 | -0.004 | 0.031 | 0.039 | 0.035 | -0.008 |