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## Supplementary Electronic Information for: Coordination of Lead (II) in Solvated Clusters with Water $[\text{Pb}(\text{H}_2\text{O})_{1-8}]^{2+}$ : Insights from Relativistic Effects, Energy Analysis, Molecular Orbitals, and Electron Density

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Fig. S1  $[\text{Pb}(\text{H}_2\text{O})_7]^{2+}$  structural motif at the SR-ZORA theory level. Relative energies in kcal/mol to the global minimum within each PES (ZPE-corrected) at the SO-ZORA theory level. Oxygen atoms are displayed in red, hydrogen atoms in white, and lead atoms in silver.

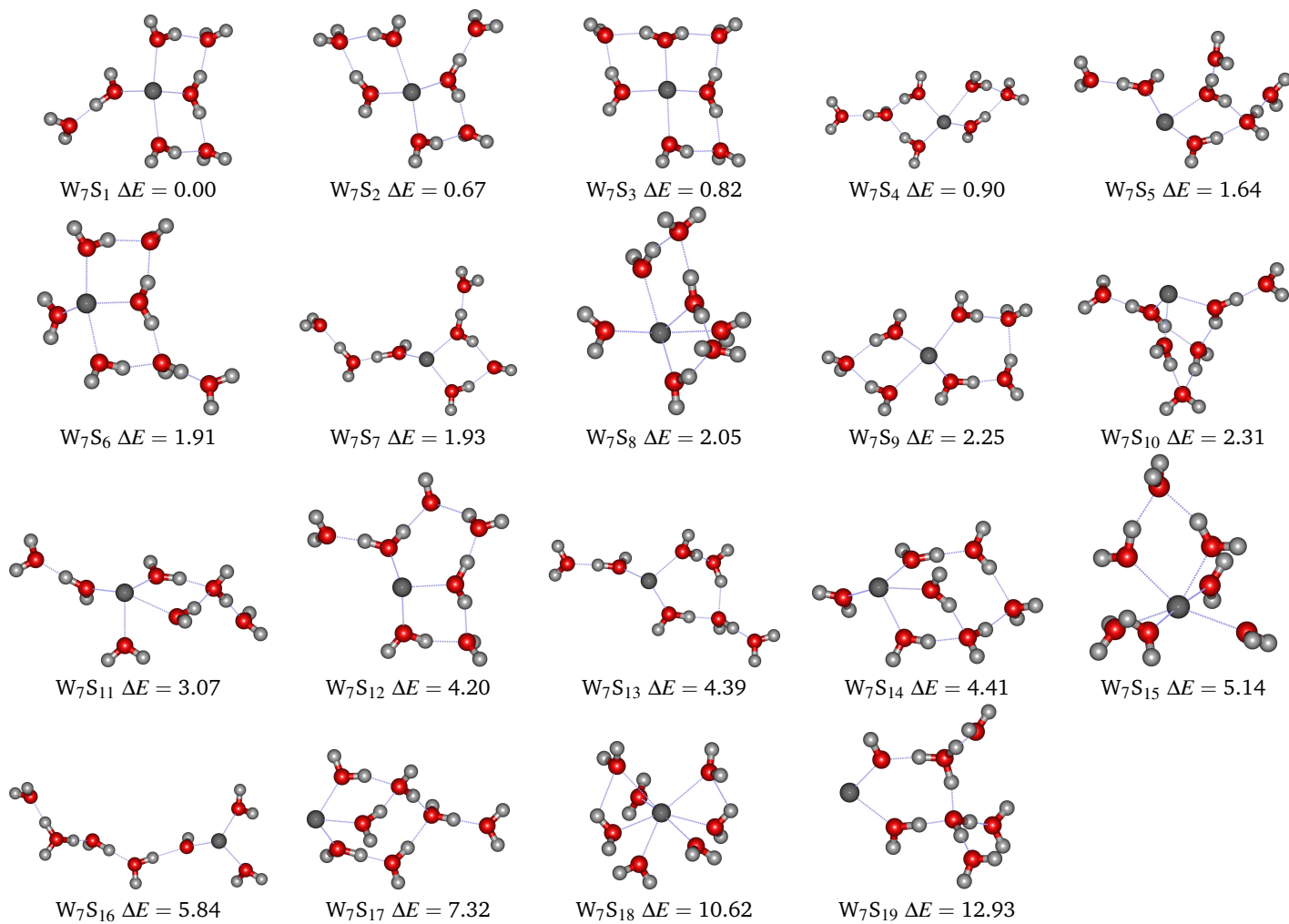


Fig. S2  $[\text{Pb}(\text{H}_2\text{O})_8]^{2+}$  structural motif at the SR-ZORA theory level. Relative energies in kcal/mol to the global minimum within each PES (ZPE-corrected) at the SO-ZORA theory level. Oxygen atoms are displayed in red, hydrogen atoms in white, and lead atoms in silver.

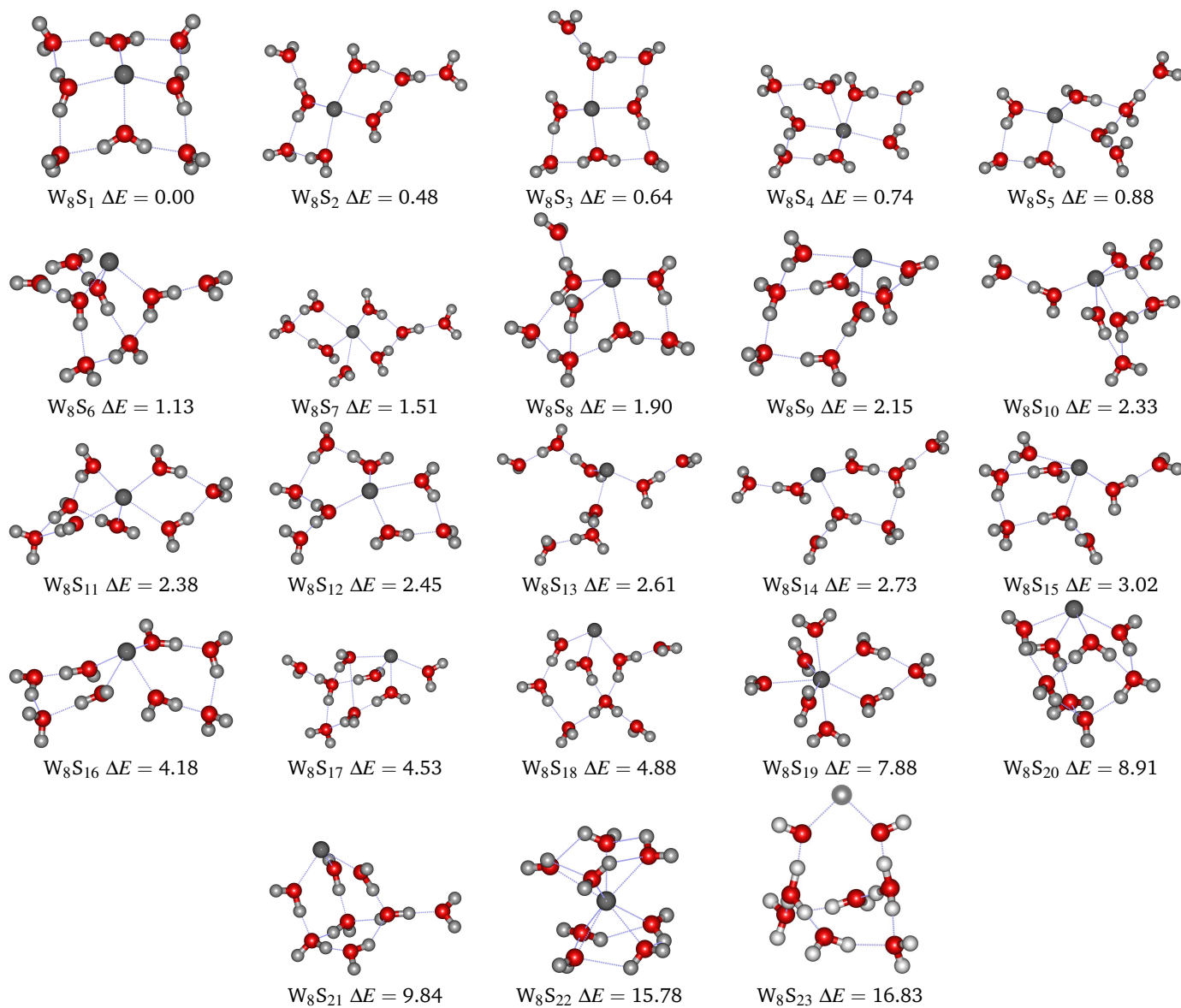


Table S1 Energy Analysis in kcal/mol for the SO–ZORA equilibrium structures of  $[\text{Pb}(\text{H}_2\text{O})_n]^{2+}$  clusters at NR–ZORA, SR–ZORA, and SO–ZORA theory levels with PBE Functional and ZPE–Corrected.

|                                | Pb–O | h | $\Delta E$ |       |       | $\Delta E_{int}$ |         |         | $\Delta E_{binding}$ |         |         | $\Delta E_s$ |
|--------------------------------|------|---|------------|-------|-------|------------------|---------|---------|----------------------|---------|---------|--------------|
|                                |      |   | NR         | SR    | SO    | NR               | SR      | SO      | NR                   | SR      | SO      |              |
| W <sub>1</sub> S <sub>1</sub>  | 1    | 0 | 0.00       | 0.00  | 0.00  | -58.91           | -59.14  | -61.19  | -58.76               | -58.99  | -61.04  | -0.15        |
| W <sub>2</sub> S <sub>1</sub>  | 2    | 0 | 0.00       | 0.00  | 0.00  | -105.55          | -105.45 | -108.47 | -109.40              | -109.28 | -112.11 | 3.64         |
| W <sub>2</sub> S <sub>2</sub>  | 1    | 1 | 5.12       | 6.41  | 5.10  | -100.44          | -99.04  | -103.37 | -142.37              | -140.95 | -145.26 | 41.89        |
| W <sub>3</sub> S <sub>1</sub>  | 3    | 0 | 0.00       | 0.00  | 0.00  | -143.57          | -142.84 | -146.30 | -150.58              | -149.80 | -152.86 | 6.56         |
| W <sub>3</sub> S <sub>2</sub>  | 2    | 1 | 3.91       | 4.43  | 4.05  | -139.66          | -138.41 | -142.25 | -157.92              | -156.62 | -160.47 | 18.22        |
| W <sub>3</sub> S <sub>3</sub>  | 2    | 1 | 4.95       | 5.51  | 5.18  | -138.63          | -137.33 | -141.11 | -154.45              | -152.75 | -156.74 | 15.62        |
| W <sub>4</sub> S <sub>1</sub>  | 3    | 1 | 0.00       | 0.00  | 0.00  | -171.56          | -169.70 | -173.64 | -185.73              | -183.81 | -187.75 | 14.11        |
| W <sub>4</sub> S <sub>2</sub>  | 3    | 2 | 0.14       | -0.13 | 0.11  | -171.42          | -169.83 | -173.53 | -180.50              | -178.92 | -182.61 | 9.08         |
| W <sub>4</sub> S <sub>3</sub>  | 4    | 0 | 1.87       | 0.34  | 0.87  | -169.70          | -169.36 | -172.77 | -179.09              | -178.76 | -182.17 | 9.40         |
| W <sub>4</sub> S <sub>4</sub>  | 2    | 2 | 3.17       | 3.59  | 3.25  | -168.39          | -166.62 | -170.40 | -191.47              | -189.15 | -193.43 | 23.03        |
| W <sub>4</sub> S <sub>5</sub>  | 2    | 2 | 3.87       | 4.58  | 3.53  | -167.69          | -165.12 | -170.12 | -221.34              | -218.71 | -223.70 | 53.58        |
| W <sub>5</sub> S <sub>1</sub>  | 3    | 3 | 0.00       | 0.00  | 0.00  | -196.58          | -194.04 | -198.09 | -212.03              | -209.42 | -213.47 | 15.37        |
| W <sub>5</sub> S <sub>2</sub>  | 3    | 2 | 0.16       | 0.38  | 0.22  | -196.42          | -193.66 | -197.87 | -214.63              | -211.80 | -216.00 | 18.14        |
| W <sub>5</sub> S <sub>3</sub>  | 3    | 3 | 0.87       | 0.83  | 0.82  | -195.72          | -193.21 | -197.27 | -210.46              | -207.89 | -211.94 | 14.67        |
| W <sub>5</sub> S <sub>4</sub>  | 4    | 2 | 1.57       | 0.55  | 0.93  | -195.02          | -193.49 | -187.16 | -206.46              | -204.99 | -208.66 | 11.50        |
| W <sub>5</sub> S <sub>5</sub>  | 4    | 1 | 2.08       | 1.02  | 1.28  | -194.51          | -193.01 | -196.82 | -209.33              | -207.73 | -211.52 | 14.71        |
| W <sub>5</sub> S <sub>6</sub>  | 3    | 2 | 2.47       | 3.00  | 2.25  | -194.12          | -191.04 | -195.84 | -238.29              | -235.13 | -239.93 | 44.09        |
| W <sub>5</sub> S <sub>7</sub>  | 5    | 0 | 5.91       | 1.56  | 2.30  | -190.67          | -192.47 | -195.80 | -202.91              | -204.85 | -208.17 | 12.37        |
| W <sub>5</sub> S <sub>8</sub>  | 3    | 3 | 3.63       | 2.93  | 3.06  | -192.95          | -191.11 | -195.03 | -202.50              | -200.62 | -204.53 | 9.50         |
| W <sub>5</sub> S <sub>9</sub>  | 4    | 1 | 4.05       | 2.95  | 3.27  | -192.54          | -191.09 | -194.83 | -206.10              | -204.69 | -208.42 | 13.59        |
| W <sub>5</sub> S <sub>10</sub> | 3    | 4 | 3.80       | 3.72  | 3.86  | -192.78          | -190.31 | -194.23 | -201.17              | -198.64 | -202.55 | 8.32         |
| W <sub>5</sub> S <sub>11</sub> | 5    | 0 | 8.77       | 3.74  | 4.49  | -187.81          | -190.30 | -193.61 | -199.70              | -202.04 | -205.34 | 11.73        |
| W <sub>5</sub> S <sub>12</sub> | 2    | 4 | 8.13       | 8.40  | 8.12  | -188.46          | -185.64 | -189.98 | -204.69              | -201.83 | -206.16 | 16.18        |
| W <sub>6</sub> S <sub>1</sub>  | 4    | 4 | 0.00       | 0.00  | 0.00  | -217.64          | -215.80 | -219.57 | -231.28              | -229.44 | -233.20 | 13.63        |
| W <sub>6</sub> S <sub>2</sub>  | 3    | 4 | -0.62      | 0.94  | 0.39  | -218.26          | -214.86 | -219.19 | -237.20              | -233.70 | -238.02 | 18.83        |
| W <sub>6</sub> S <sub>3</sub>  | 4    | 4 | 0.46       | 0.63  | 0.65  | -217.18          | -215.17 | -218.93 | -230.16              | -228.06 | -231.81 | 12.88        |
| W <sub>6</sub> S <sub>4</sub>  | 3    | 3 | -0.15      | 1.58  | 0.97  | -217.79          | -214.21 | -218.61 | -238.88              | -235.21 | -239.60 | 20.99        |
| W <sub>6</sub> S <sub>5</sub>  | 4    | 3 | 1.54       | 1.87  | 1.82  | -216.10          | -213.93 | -217.75 | -231.10              | -228.83 | -232.65 | 14.89        |
| W <sub>6</sub> S <sub>6</sub>  | 3    | 3 | 1.30       | 3.42  | 2.38  | -216.34          | -212.38 | -217.19 | -255.89              | -251.85 | -256.66 | 39.47        |
| W <sub>6</sub> S <sub>7</sub>  | 4    | 3 | 2.10       | 2.64  | 2.52  | -215.54          | -213.16 | -217.05 | -230.70              | -228.24 | -232.13 | 15.08        |
| W <sub>6</sub> S <sub>8</sub>  | 5    | 3 | 4.97       | 2.88  | 3.15  | -212.67          | -212.92 | -216.43 | -225.88              | -226.02 | -229.52 | 13.10        |
| W <sub>6</sub> S <sub>9</sub>  | 3    | 4 | 2.29       | 3.60  | 3.16  | -215.34          | -212.20 | -216.41 | -230.46              | -227.17 | -231.37 | 14.96        |
| W <sub>6</sub> S <sub>10</sub> | 4    | 3 | 3.06       | 3.36  | 3.26  | -214.58          | -212.44 | -216.31 | -225.85              | -223.64 | -227.51 | 11.20        |
| W <sub>6</sub> S <sub>11</sub> | 4    | 2 | 3.00       | 3.89  | 3.32  | -214.64          | -211.91 | -216.25 | -248.67              | -245.83 | -250.17 | 33.92        |
| W <sub>6</sub> S <sub>12</sub> | 4    | 4 | 3.81       | 3.71  | 3.77  | -213.83          | -212.09 | -216.81 | -224.92              | -223.07 | -226.78 | 10.97        |
| W <sub>6</sub> S <sub>13</sub> | 3    | 5 | 3.58       | 4.36  | 3.94  | -214.05          | -211.44 | -215.63 | -228.43              | -225.65 | -229.83 | 14.20        |
| W <sub>6</sub> S <sub>14</sub> | 4    | 2 | 4.17       | 4.51  | 4.28  | -213.47          | -211.28 | -215.29 | -231.15              | -228.87 | -232.87 | 17.58        |
| W <sub>6</sub> S <sub>15</sub> | 4    | 3 | 4.39       | 4.48  | 4.38  | -213.24          | -211.31 | -215.19 | -226.87              | -224.86 | -228.73 | 13.54        |
| W <sub>6</sub> S <sub>16</sub> | 5    | 1 | 6.02       | 4.40  | 4.57  | -211.62          | -211.40 | -215.00 | -227.70              | -227.35 | -230.94 | 15.94        |
| W <sub>6</sub> S <sub>17</sub> | 6    | 0 | 11.16      | 4.36  | 5.09  | -206.48          | -211.43 | -214.48 | -221.31              | -226.11 | -229.15 | 14.67        |
| W <sub>6</sub> S <sub>18</sub> | 3    | 5 | 4.68       | 5.86  | 5.53  | -212.95          | -209.94 | -214.04 | -224.23              | -221.14 | -225.23 | 11.19        |
| W <sub>6</sub> S <sub>19</sub> | 3    | 5 | 5.36       | 6.45  | 6.02  | -212.28          | -209.35 | -213.55 | -219.21              | -216.22 | -220.41 | 6.86         |
| W <sub>6</sub> S <sub>20</sub> | 2    | 5 | 9.89       | 11.79 | 10.36 | -207.75          | -204.01 | -209.21 | -249.45              | -245.67 | -250.87 | 41.66        |
| W <sub>7</sub> S <sub>1</sub>  | 4    | 5 | 0.0        | 0.0   | 0.0   | -238.45          | -234.42 | -238.45 | -255.00              | -252.15 | -256.17 | 17.72        |
| W <sub>7</sub> S <sub>17</sub> | 3    | 6 | 7.02       | 7.49  | 7.21  | -231.24          | -226.93 | -231.24 | -237.91              | -234.61 | -238.91 | 7.67         |
| W <sub>7</sub> S <sub>18</sub> | 7    | 0 | 19.09      | 9.12  | 10.26 | -218.09          | -225.30 | -228.19 | -232.97              | -239.96 | -242.84 | 14.65        |
| W <sub>7</sub> S <sub>19</sub> | 2    | 6 | 12.61      | 14.04 | 12.73 | -225.72          | -220.38 | -225.72 | -263.93              | -259.69 | -265.01 | 39.30        |
| W <sub>8</sub> S <sub>1</sub>  | 4    | 8 | 0.0        | 0.0   | 0.00  | -253.33          | -251.48 | -255.15 | -268.74              | -266.69 | -270.34 | 15.20        |
| W <sub>8</sub> S <sub>14</sub> | 3    | 6 | 0.74       | 3.67  | 2.65  | -252.59          | -247.81 | -252.50 | -283.80              | -277.26 | -281.94 | 29.44        |
| W <sub>8</sub> S <sub>16</sub> | 4    | 6 | 3.71       | 4.98  | 4.44  | -249.62          | -246.50 | -250.71 | -265.41              | -262.26 | -266.37 | 15.66        |
| W <sub>8</sub> S <sub>22</sub> | 8    | 8 | 25.04      | 15.16 | 14.81 | -228.29          | -236.32 | -240.34 | -239.54              | -247.47 | -251.48 | 11.14        |
| W <sub>8</sub> S <sub>23</sub> | 2    | 8 | 15.28      | 18.74 | 16.83 | -238.05          | -232.74 | -238.32 | -290.63              | -285.27 | -290.84 | 52.52        |

Table S2 Energy Analysis in kcal/mol for the SR-ZORA equilibrium structures of  $[\text{Pb}(\text{H}_2\text{O})_{7-8}]^{2+}$  clusters at NR-ZORA, SR-ZORA, and SO-ZORA theory levels with PBE Functional and ZPE-Corrected.

|                                | Pb-O | h | $\Delta E$ |       |       | $\Delta E_{int}$ |         |         | $\Delta E_{binding}$ |         |         | $\Delta E_s$ |
|--------------------------------|------|---|------------|-------|-------|------------------|---------|---------|----------------------|---------|---------|--------------|
|                                |      |   | NR         | SR    | SO    | NR               | SR      | SO      | NR                   | SR      | SO      |              |
| W <sub>7</sub> S <sub>1</sub>  | 4    | 5 | 0.00       | 0.00  | 0.00  | -237.15          | -234.78 | -238.74 | -254.27              | -251.77 | -255.72 | 16.98        |
| W <sub>7</sub> S <sub>2</sub>  | 4    | 5 | 0.67       | 0.61  | 0.67  | -236.48          | -234.16 | -238.06 | -253.03              | -250.61 | -254.50 | 16.44        |
| W <sub>7</sub> S <sub>3</sub>  | 4    | 6 | 1.32       | 0.70  | 0.82  | -235.83          | -234.07 | -237.92 | -250.51              | -248.64 | -252.47 | 14.56        |
| W <sub>7</sub> S <sub>4</sub>  | 4    | 5 | 1.02       | 0.88  | 0.90  | -236.13          | -233.90 | -237.83 | -248.09              | -245.71 | -249.63 | 11.80        |
| W <sub>7</sub> S <sub>5</sub>  | 3    | 5 | 0.62       | 2.08  | 1.64  | -236.53          | -232.70 | -237.10 | -253.53              | -249.62 | -254.01 | 16.91        |
| W <sub>7</sub> S <sub>6</sub>  | 4    | 5 | 1.95       | 1.95  | 1.91  | -235.20          | -232.83 | -236.82 | -246.87              | -244.42 | -248.41 | 11.58        |
| W <sub>7</sub> S <sub>7</sub>  | 3    | 5 | 0.95       | 2.50  | 1.93  | -236.20          | -232.28 | -236.81 | -261.87              | -257.85 | -262.37 | 25.56        |
| W <sub>7</sub> S <sub>8</sub>  | 5    | 4 | 4.47       | 1.65  | 2.05  | -232.69          | -233.13 | -236.68 | -248.29              | -248.45 | -252.00 | 15.31        |
| W <sub>7</sub> S <sub>9</sub>  | 4    | 5 | 2.34       | 2.31  | 2.25  | -234.81          | -232.47 | -236.49 | -249.79              | -247.36 | -251.37 | 14.88        |
| W <sub>7</sub> S <sub>10</sub> | 3    | 6 | 1.11       | 2.76  | 2.31  | -236.05          | -232.02 | -236.43 | -253.32              | -249.20 | -253.60 | 17.17        |
| W <sub>7</sub> S <sub>11</sub> | 4    | 4 | 2.90       | 3.07  | 3.07  | -234.25          | -231.70 | -235.66 | -247.60              | -244.95 | -248.90 | 13.24        |
| W <sub>7</sub> S <sub>12</sub> | 3    | 6 | 3.82       | 4.57  | 4.20  | -233.33          | -230.20 | -234.53 | -249.39              | -246.17 | -250.49 | 15.95        |
| W <sub>7</sub> S <sub>13</sub> | 3    | 5 | 3.60       | 4.73  | 4.39  | -233.55          | -230.04 | -234.35 | -249.17              | -245.59 | -249.89 | 15.54        |
| W <sub>7</sub> S <sub>14</sub> | 4    | 5 | 4.68       | 4.40  | 4.41  | -232.48          | -230.38 | -234.33 | -245.06              | -242.83 | -246.77 | 12.44        |
| W <sub>7</sub> S <sub>15</sub> | 6    | 2 | 11.14      | 4.33  | 5.14  | -226.01          | -230.45 | -233.59 | -242.43              | -246.69 | -249.82 | 16.23        |
| W <sub>7</sub> S <sub>16</sub> | 3    | 4 | 5.48       | 7.39  | 5.84  | -231.67          | -227.39 | -232.89 | -313.36              | -323.41 |         |              |
| W <sub>7</sub> S <sub>17</sub> | 3    | 6 | 6.77       | 7.66  | 7.32  | -230.38          | -227.12 | -231.41 | -237.66              | -234.32 | -238.61 | 7.19         |
| W <sub>7</sub> S <sub>18</sub> | 7    | 2 | 18.75      | 9.57  | 10.62 | -218.40          | -225.20 | -228.12 | -233.56              | -240.20 | -243.10 | 14.98        |
| W <sub>7</sub> S <sub>19</sub> | 2    | 6 | 12.54      | 14.26 | 12.93 | -224.62          | -220.52 | -225.80 | -261.82              | -257.66 | -262.93 | 37.13        |
|                                |      |   |            |       |       |                  |         |         |                      |         |         |              |
| W <sub>8</sub> S <sub>1</sub>  | 4    | 8 | 0.00       | 0.00  | 0.00  | -253.12          | -255.25 | -255.26 | -267.87              | -269.89 | -269.89 | 14.63        |
| W <sub>8</sub> S <sub>2</sub>  | 4    | 6 | -0.39      | 4.48  | 0.48  | -253.52          | -250.77 | -254.78 | -269.09              | -266.18 | -270.18 | 15.40        |
| W <sub>8</sub> S <sub>3</sub>  | 4    | 7 | 0.10       | 4.58  | 0.64  | -253.03          | -250.66 | -254.62 | -269.84              | -267.38 | -271.33 | 16.71        |
| W <sub>8</sub> S <sub>4</sub>  | 5    | 6 | 1.61       | 4.42  | 0.74  | -251.51          | -250.83 | -254.52 | -267.81              | -266.93 | -270.61 | 16.09        |
| W <sub>8</sub> S <sub>5</sub>  | 4    | 6 | 0.04       | 4.98  | 0.88  | -253.08          | -250.27 | -254.38 | -267.75              | -264.84 | -268.95 | 14.57        |
| W <sub>8</sub> S <sub>6</sub>  | 3    | 7 | -1.21      | 5.59  | 1.13  | -254.33          | -249.65 | -254.14 | -273.85              | -268.96 | -273.43 | 19.30        |
| W <sub>8</sub> S <sub>7</sub>  | 5    | 5 | 2.74       | 5.25  | 1.51  | -250.38          | -249.99 | -253.75 | -263.32              | -262.78 | -266.53 | 12.78        |
| W <sub>8</sub> S <sub>8</sub>  | 4    | 7 | 1.60       | 5.83  | 1.90  | -251.52          | -249.42 | -253.37 | -266.04              | -263.84 | -267.78 | 14.42        |
| W <sub>8</sub> S <sub>9</sub>  | 4    | 7 | 1.73       | 6.29  | 2.15  | -251.39          | -248.96 | -253.11 | -265.13              | -262.59 | -266.73 | 13.62        |
| W <sub>8</sub> S <sub>10</sub> | 5    | 5 | 4.27       | 5.94  | 2.33  | -248.85          | -249.31 | -252.93 | -266.20              | -266.51 | -270.12 | 17.19        |
| W <sub>8</sub> S <sub>11</sub> | 5    | 6 | 3.83       | 5.97  | 2.38  | -249.29          | -249.28 | -252.88 | -262.17              | -262.02 | -265.61 | 12.73        |
| W <sub>8</sub> S <sub>12</sub> | 4    | 6 | -1.21      | 6.76  | 2.45  | -254.33          | -248.48 | -252.81 | -270.41              | -264.43 | -268.74 | 15.93        |
| W <sub>8</sub> S <sub>13</sub> | 3    | 5 | 0.50       | 7.28  | 2.61  | -252.63          | -247.97 | -252.65 | -279.01              | -274.37 | -279.04 | 26.38        |
| W <sub>8</sub> S <sub>14</sub> | 3    | 6 | 0.79       | 7.40  | 2.73  | -252.33          | -247.84 | -252.53 | -279.43              | -274.88 | -279.56 | 27.03        |
| W <sub>8</sub> S <sub>15</sub> | 4    | 6 | 2.36       | 7.12  | 3.02  | -250.76          | -248.13 | -252.24 | -265.69              | -262.92 | -267.02 | 14.78        |
| W <sub>8</sub> S <sub>16</sub> | 4    | 6 | 3.50       | 8.34  | 4.18  | -249.62          | -246.90 | -251.08 | -265.04              | -262.20 | -266.36 | 15.28        |
| W <sub>8</sub> S <sub>17</sub> | 4    | 7 | 3.85       | 8.55  | 4.53  | -249.27          | -246.70 | -250.74 | -261.13              | -258.46 | -262.49 | 11.75        |
| W <sub>8</sub> S <sub>18</sub> | 3    | 7 | 3.18       | 9.22  | 4.88  | -249.94          | -246.02 | -250.38 | -263.26              | -259.07 | -263.44 | 13.06        |
| W <sub>8</sub> S <sub>19</sub> | 7    | 2 | 15.94      | 10.91 | 7.88  | -237.19          | -244.34 | -247.38 | -255.66              | -262.64 | -265.67 | 18.29        |
| W <sub>8</sub> S <sub>20</sub> | 4    | 8 | 8.68       | 12.90 | 8.91  | -244.44          | -242.35 | -246.35 | -249.50              | -247.28 | -251.27 | 4.92         |
| W <sub>8</sub> S <sub>21</sub> | 3    | 8 | 8.49       | 14.16 | 9.84  | -244.63          | -241.09 | -245.43 | -245.93              | -242.33 | -246.66 | 1.23         |
| W <sub>8</sub> S <sub>22</sub> | 8    | 8 | 24.36      | 17.70 | 15.78 | -228.76          | -237.55 | -239.48 | -241.38              | -250.17 | -252.09 | 12.61        |
| W <sub>8</sub> S <sub>23</sub> | 2    | 8 | 15.16      | 22.56 | 16.97 | -237.96          | -232.69 | -238.29 | -288.09              | -282.77 | -288.36 | 50.07        |

Table S3 Results of the SO-level optimizations with and without dispersion for the  $W_nS_m$  complexes. The  $\Delta\Delta E$  and  $\Delta BE$  values correspond to the energy with dispersion minus the energy without dispersion. All energy values are given in kcal/mol.

| Structures  | RMSD | $\Delta E_{\text{Disp}}$ | $\Delta E_{\text{No-Disp}}$ | $\Delta\Delta E$ | $BE_{\text{Disp}}$ | $BE_{\text{No-Disp}}$ | $\Delta BE$ |
|-------------|------|--------------------------|-----------------------------|------------------|--------------------|-----------------------|-------------|
| $W_1S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -30171.27          | -30170.13             | -1.14       |
| $W_2S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -30536.27          | -30533.88             | -2.40       |
| $W_2S_2$    | 0.0  | 5.41                     | 5.10                        | 0.31             | -30530.86          | -30528.78             | -2.09       |
| $W_3S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -30891.89          | -30888.17             | -3.72       |
| $W_3S_2$    | 0.0  | 4.40                     | 4.05                        | 0.35             | -30887.48          | -30884.12             | -3.36       |
| $W_3S_3$    | 0.6  | 5.52                     | 5.18                        | 0.34             | -30886.37          | -30882.98             | -3.38       |
| $W_4S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -31236.74          | -31231.98             | -4.76       |
| $W_4S_3$    | 0.0  | 0.32                     | 0.87                        | -0.55            | -31236.42          | -31231.11             | -5.31       |
| $W_4S_4$    | 0.0  | 3.65                     | 3.25                        | 0.40             | -31233.08          | -31228.73             | -4.36       |
| $W_4S_5$    | 0.0  | 4.33                     | 3.53                        | 0.80             | -31232.41          | -31228.45             | -3.96       |
| $W_5S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -31579.11          | -31572.89             | -6.22       |
| $W_5S_6$    | 0.0  | 2.86                     | 2.25                        | 0.61             | -31576.25          | -31570.64             | -5.61       |
| $W_5S_{11}$ | 0.1  | 4.26                     | 4.49                        | -0.23            | -31574.84          | -31568.40             | -6.44       |
| $W_5S_{12}$ | 0.0  | 8.37                     | 8.12                        | 0.25             | -31570.74          | -31564.77             | -5.97       |
| $W_6S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -31919.23          | -31910.83             | -8.40       |
| $W_6S_6$    | 0.0  | 4.10                     | 2.38                        | 1.72             | -31915.13          | -31908.45             | -6.67       |
| $W_6S_{17}$ | 0.2  | 5.83                     | 5.09                        | 0.74             | -31913.39          | -31905.74             | -7.65       |
| $W_6S_{20}$ | 0.0  | 11.86                    | 10.36                       | 1.50             | -31907.37          | -31900.47             | -6.90       |
| $W_7S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -32255.36          | -32246.17             | -9.19       |
| $W_7S_{17}$ | 0.1  | 7.12                     | 7.21                        | -0.09            | -32248.24          | -32238.96             | -9.29       |
| $W_7S_{18}$ | 0.2  | 9.61                     | 10.26                       | -0.65            | -32245.76          | -32235.91             | -9.85       |
| $W_7S_{19}$ | 0.0  | 13.90                    | 12.73                       | 1.17             | -32241.47          | -32233.44             | -8.03       |
| $W_8S_1$    | 0.0  | 0.00                     | 0.00                        | 0.00             | -32590.37          | -32579.33             | -11.04      |
| $W_8S_{14}$ | 0.0  | 4.44                     | 2.65                        | 1.79             | -32585.90          | -32576.68             | -9.22       |
| $W_8S_{16}$ | 0.1  | 5.01                     | 4.44                        | 0.57             | -32585.36          | -32574.89             | -10.47      |
| $W_8S_{22}$ | 0.0  | 13.95                    | 14.81                       | -0.86            | -32576.42          | -32564.52             | -11.90      |
| $W_8S_{23}$ | 0.0  | 18.23                    | 16.83                       | 1.40             | -32572.14          | -32562.50             | -9.64       |

Table S4 Free Energy Analysis ( $\Delta G$ ) in kcal/mol for the SO–ZORA equilibrium structures of  $[\text{Pb}(\text{H}_2\text{O})_n]^{2+}$  clusters at NR–ZORA, SR–ZORA, and SO–ZORA theory levels with PBE Functional.

|                                | Pb–O | h | $\Delta G_{\text{solv}}^*$ |         |         | $\Delta G_{\text{g.binding}}^o$ |         |         | $\mathcal{P}(T = 298K)$ |     |     |
|--------------------------------|------|---|----------------------------|---------|---------|---------------------------------|---------|---------|-------------------------|-----|-----|
|                                |      |   | NR                         | SR      | SO      | NR                              | SR      | SO      | NR                      | SR  | SO  |
| W <sub>1</sub> S <sub>1</sub>  | 1    | 0 | -243.83                    | -242.44 | -240.38 | -53.66                          | -53.90  | -55.96  | 100                     | 100 | 100 |
| W <sub>2</sub> S <sub>1</sub>  | 2    | 0 | -207.33                    | -206.11 | -203.36 | -92.22                          | -92.27  | -95.02  | 0                       | 0   | 0   |
| W <sub>2</sub> S <sub>2</sub>  | 1    | 1 | -212.92                    | -213.24 | -208.95 | -86.63                          | -85.14  | -89.43  | 100                     | 100 | 100 |
| W <sub>3</sub> S <sub>1</sub>  | 3    | 0 | -180.58                    | -180.37 | -176.76 | -121.03                         | -120.05 | -123.66 | 0                       | 0   | 0   |
| W <sub>3</sub> S <sub>2</sub>  | 2    | 1 | -183.13                    | -184.52 | -180.28 | -118.48                         | -115.90 | -120.14 | 1                       | 4   | 2   |
| W <sub>3</sub> S <sub>3</sub>  | 2    | 1 | -185.99                    | -186.33 | -182.46 | -115.62                         | -114.09 | -117.96 | 99                      | 96  | 98  |
| W <sub>4</sub> S <sub>1</sub>  | 3    | 1 | -163.07                    | -163.89 | -159.90 | -140.60                         | -138.57 | -142.56 | 0                       | 0   | 0   |
| W <sub>4</sub> S <sub>2</sub>  | 3    | 2 | -165.19                    | -164.71 | -160.88 | -138.48                         | -137.75 | -141.58 | 3                       | 0   | 2   |
| W <sub>4</sub> S <sub>3</sub>  | 4    | 0 | -164.24                    | -163.82 | -160.21 | -139.43                         | -138.64 | -142.25 | 0                       | 0   | 0   |
| W <sub>4</sub> S <sub>4</sub>  | 2    | 2 | -166.47                    | -167.56 | -163.20 | -137.20                         | -134.90 | -139.26 | 23                      | 63  | 80  |
| W <sub>4</sub> S <sub>5</sub>  | 2    | 2 | -167.16                    | -167.25 | -162.30 | -136.51                         | -135.21 | -140.16 | 74                      | 37  | 18  |
| W <sub>5</sub> S <sub>1</sub>  | 3    | 3 | -151.63                    | -152.89 | -148.82 | -154.10                         | -151.61 | -155.68 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>2</sub>  | 3    | 2 | -149.98                    | -151.63 | -147.40 | -155.75                         | -152.87 | -157.10 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>3</sub>  | 3    | 3 | -149.36                    | -151.89 | -147.69 | -156.37                         | -152.61 | -156.81 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>4</sub>  | 4    | 2 | -151.17                    | -151.75 | -147.92 | -154.56                         | -152.75 | -156.58 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>5</sub>  | 4    | 1 | -149.89                    | -149.96 | -146.44 | -155.84                         | -154.54 | -158.06 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>6</sub>  | 3    | 2 | -150.80                    | -153.00 | -148.25 | -154.93                         | -151.50 | -156.25 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>7</sub>  | 5    | 0 | -153.13                    | -150.41 | -146.02 | -152.60                         | -154.09 | -158.48 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>8</sub>  | 3    | 3 | -153.69                    | -154.23 | -151.54 | -152.04                         | -150.27 | -152.96 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>9</sub>  | 4    | 1 | -152.18                    | -152.72 | -148.71 | -153.55                         | -151.78 | -155.79 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>10</sub> | 3    | 4 | -155.30                    | -156.49 | -152.38 | -150.43                         | -148.01 | -152.12 | 0                       | 0   | 0   |
| W <sub>5</sub> S <sub>11</sub> | 5    | 0 | -157.24                    | -152.77 | -149.26 | -148.49                         | -151.73 | -155.24 | 12                      | 0   | 0   |
| W <sub>5</sub> S <sub>12</sub> | 2    | 4 | -158.39                    | -159.82 | -155.53 | -147.34                         | -144.68 | -148.97 | 87                      | 100 | 99  |
| W <sub>6</sub> S <sub>1</sub>  | 4    | 4 | -140.62                    | -141.36 | -137.33 | -167.17                         | -165.18 | -169.21 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>2</sub>  | 3    | 4 | -138.79                    | -140.85 | -136.50 | -169.00                         | -165.69 | -170.04 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>3</sub>  | 4    | 4 | -142.14                    | -142.93 | -137.77 | -165.65                         | -163.61 | -168.77 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>4</sub>  | 3    | 3 | -139.83                    | -140.38 | -135.94 | -167.96                         | -166.16 | -170.60 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>5</sub>  | 4    | 3 | -141.02                    | -142.12 | -138.12 | -166.77                         | -164.42 | -168.42 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>6</sub>  | 3    | 3 | -139.09                    | -143.63 | -138.96 | -168.70                         | -162.91 | -167.58 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>7</sub>  | 4    | 3 | -141.29                    | -142.69 | -138.72 | -166.50                         | -163.85 | -167.82 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>8</sub>  | 5    | 3 | -144.56                    | -141.98 | -138.87 | -163.23                         | -164.56 | -167.67 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>9</sub>  | 3    | 4 | -141.99                    | -143.66 | -139.64 | -165.80                         | -162.88 | -166.90 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>10</sub> | 4    | 3 | -142.73                    | -143.95 | -139.91 | -165.06                         | -162.59 | -166.63 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>11</sub> | 4    | 2 | -141.29                    | -143.42 | -137.80 | -166.50                         | -163.12 | -168.74 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>12</sub> | 4    | 4 | -145.08                    | -145.91 | -140.95 | -162.71                         | -160.63 | -165.59 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>13</sub> | 3    | 5 | -144.52                    | -145.88 | -141.68 | -163.27                         | -160.66 | -164.86 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>14</sub> | 4    | 2 | -141.88                    | -144.03 | -140.11 | -165.91                         | -162.51 | -166.43 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>15</sub> | 4    | 3 | -144.27                    | -145.14 | -141.22 | -163.52                         | -161.40 | -165.32 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>16</sub> | 5    | 1 | -144.35                    | -142.56 | -138.84 | -163.44                         | -163.98 | -167.70 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>17</sub> | 6    | 0 | -147.69                    | -139.20 | -135.97 | -160.10                         | -167.34 | -170.57 | 2                       | 0   | 0   |
| W <sub>6</sub> S <sub>18</sub> | 3    | 5 | -146.24                    | -147.94 | -143.73 | -161.55                         | -158.60 | -162.81 | 0                       | 0   | 0   |
| W <sub>6</sub> S <sub>19</sub> | 3    | 5 | -147.58                    | -149.27 | -145.24 | -160.21                         | -157.27 | -161.30 | 2                       | 1   | 5   |
| W <sub>6</sub> S <sub>20</sub> | 2    | 5 | -149.89                    | -152.07 | -146.96 | -157.90                         | -154.47 | -159.58 | 95                      | 99  | 94  |
| W <sub>7</sub> S <sub>1</sub>  | 4    | 5 | -131.59                    | -133.07 | -128.95 | -178.26                         | -175.51 | -179.63 | 0                       | 0   | 0   |
| W <sub>7</sub> S <sub>17</sub> | 3    | 6 | -140.17                    | -142.00 | -137.44 | -169.68                         | -166.58 | -171.14 | 0                       | 0   | 0   |
| W <sub>7</sub> S <sub>18</sub> | 7    | 0 | -151.46                    | -140.18 | -136.11 | -158.39                         | -168.40 | -172.47 | 100                     | 0   | 0   |
| W <sub>7</sub> S <sub>19</sub> | 2    | 6 | -143.34                    | -145.46 | -140.63 | -166.51                         | -163.12 | -167.95 | 0                       | 100 | 99  |
| W <sub>8</sub> S <sub>1</sub>  | 4    | 8 | -131.41                    | -130.88 | -125.25 | -180.50                         | -179.74 | -185.37 | 0                       | 0   | 0   |
| W <sub>8</sub> S <sub>14</sub> | 3    | 6 | -123.30                    | -127.71 | -125.27 | -188.61                         | -182.91 | -185.35 | 0                       | 0   | 0   |
| W <sub>8</sub> S <sub>16</sub> | 4    | 6 | -132.61                    | -134.48 | -127.97 | -179.30                         | -176.14 | -182.65 | 0                       | 0   | 0   |
| W <sub>8</sub> S <sub>22</sub> | 8    | 8 | -154.49                    | -146.03 | -135.02 | -157.42                         | -164.59 | -175.60 | 100                     | 1   | 0   |
| W <sub>8</sub> S <sub>23</sub> | 2    | 8 | -143.46                    | -148.63 | -141.82 | -168.45                         | -161.99 | -168.80 | 0                       | 99  | 100 |

Table S5 Free Energy Analysis ( $\Delta G$ ) in kcal/mol for the SR-ZORA equilibrium structures of  $[\text{Pb}(\text{H}_2\text{O})_{7-8}]^{2+}$  clusters at NR-ZORA, SR-ZORA, and SO-ZORA theory levels with PBE Functional.

|                                | Pb-O | h | $\Delta G_{\text{solv}}^*$ |         |         | $\Delta G_{\text{g.binding}}^o$ |         |         | $\mathcal{P}(T = 298K)$ |     |    |
|--------------------------------|------|---|----------------------------|---------|---------|---------------------------------|---------|---------|-------------------------|-----|----|
|                                |      |   | NR                         | SR      | SO      | NR                              | SR      | SO      | NR                      | SR  | SO |
| W <sub>7</sub> S <sub>1</sub>  | 4    | 5 | -132.47                    | -132.26 | -127.94 | -177.38                         | -176.32 | -180.64 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>2</sub>  | 4    | 5 | -133.15                    | -132.80 | -130.31 | -176.70                         | -175.78 | -178.27 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>3</sub>  | 4    | 6 | -134.37                    | -134.43 | -132.69 | -175.48                         | -174.15 | -175.89 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>4</sub>  | 4    | 5 | -134.87                    | -133.38 | -132.98 | -174.98                         | -175.20 | -175.60 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>5</sub>  | 3    | 5 | -131.83                    | -134.46 | -129.93 | -178.02                         | -174.12 | -178.65 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>6</sub>  | 4    | 5 | -134.66                    | -134.82 | -131.58 | -175.19                         | -173.76 | -177.00 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>7</sub>  | 3    | 5 | -129.28                    | -136.61 | -128.21 | -180.57                         | -171.97 | -180.37 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>8</sub>  | 5    | 4 | -136.56                    | -133.52 | -130.94 | -173.29                         | -175.06 | -177.64 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>9</sub>  | 4    | 5 | -133.97                    | -135.20 | -130.96 | -175.88                         | -173.38 | -177.62 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>10</sub> | 3    | 6 | -132.06                    | -136.17 | -131.42 | -177.79                         | -172.41 | -177.16 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>11</sub> | 4    | 4 | -132.83                    | -136.21 | -130.17 | -177.02                         | -172.37 | -178.41 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>12</sub> | 3    | 6 | -134.85                    | -138.84 | -132.40 | -175.00                         | -169.74 | -176.18 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>13</sub> | 3    | 5 | -136.05                    | -139.00 | -133.64 | -173.80                         | -169.58 | -174.94 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>14</sub> | 4    | 5 | -137.63                    | -137.76 | -134.53 | -172.22                         | -170.82 | -174.05 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>15</sub> | 6    | 2 | -143.40                    | -134.66 | -129.84 | -166.45                         | -173.92 | -178.74 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>16</sub> | 3    | 4 | -135.48                    | -140.68 | -131.64 | -174.37                         | -167.90 | -176.94 | 0                       | 0   | 0  |
| W <sub>7</sub> S <sub>17</sub> | 3    | 6 | -140.35                    | -141.54 | -137.94 | -169.50                         | -167.04 | -170.64 | 0                       | 0   | 1  |
| W <sub>7</sub> S <sub>18</sub> | 7    | 2 | -150.27                    | -140.56 | -136.17 | -159.58                         | -168.02 | -172.41 | 100                     | 0   | 0  |
| W <sub>7</sub> S <sub>19</sub> | 2    | 6 | -143.48                    | -147.38 | -140.84 | -166.37                         | -161.20 | -167.74 | 0                       | 100 | 99 |
|                                |      |   |                            |         |         |                                 |         |         |                         |     |    |
| W <sub>8</sub> S <sub>1</sub>  | 4    | 8 | -128.58                    | -128.95 | -125.21 | -183.33                         | -181.67 | -185.41 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>2</sub>  | 4    | 6 | -125.84                    | -127.25 | -124.38 | -186.07                         | -183.37 | -186.24 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>3</sub>  | 4    | 7 | -126.59                    | -129.26 | -123.23 | -185.32                         | -181.36 | -187.39 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>4</sub>  | 5    | 6 | -128.57                    | -128.45 | -122.66 | -183.34                         | -182.17 | -187.96 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>5</sub>  | 4    | 6 | -125.48                    | -128.79 | -124.11 | -186.43                         | -181.83 | -186.51 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>6</sub>  | 3    | 7 | -127.64                    | -130.42 | -126.03 | -184.27                         | -180.20 | -184.59 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>7</sub>  | 5    | 5 | -128.63                    | -127.91 | -125.79 | -183.28                         | -182.71 | -184.83 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>8</sub>  | 4    | 7 | -128.88                    | -131.21 | -126.45 | -183.03                         | -179.41 | -184.17 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>9</sub>  | 4    | 7 | -130.77                    | -130.33 | -127.68 | -181.14                         | -180.29 | -182.94 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>10</sub> | 5    | 5 | -131.19                    | -130.22 | -126.45 | -180.72                         | -180.40 | -184.17 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>11</sub> | 5    | 6 | -132.38                    | -130.11 | -127.30 | -179.53                         | -180.51 | -183.32 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>12</sub> | 4    | 6 | -127.64                    | -129.89 | -123.90 | -184.27                         | -180.73 | -186.72 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>13</sub> | 3    | 5 | -125.20                    | -131.91 | -127.42 | -186.71                         | -178.71 | -183.20 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>14</sub> | 3    | 6 | -126.64                    | -131.22 | -142.35 | -185.27                         | -179.40 | -168.27 | 0                       | 0   | 15 |
| W <sub>8</sub> S <sub>15</sub> | 4    | 6 | -130.07                    | -131.32 | -130.73 | -181.84                         | -179.30 | -179.89 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>16</sub> | 4    | 6 | -129.67                    | -132.62 | -135.25 | -182.24                         | -178.00 | -175.37 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>17</sub> | 4    | 7 | -131.02                    | -131.30 | -125.39 | -180.89                         | -179.32 | -185.23 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>18</sub> | 3    | 7 | -129.56                    | -133.43 | -125.08 | -182.35                         | -177.19 | -185.54 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>19</sub> | 7    | 2 | -145.72                    | -131.57 | -122.99 | -166.19                         | -179.05 | -187.63 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>20</sub> | 4    | 8 | -138.44                    | -139.27 | -128.10 | -173.47                         | -171.35 | -182.52 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>21</sub> | 3    | 8 | -136.67                    | -139.93 | -128.57 | -175.24                         | -170.69 | -182.05 | 0                       | 0   | 0  |
| W <sub>8</sub> S <sub>22</sub> | 8    | 8 | -153.02                    | -137.69 | -133.67 | -158.89                         | -172.93 | -176.95 | 100                     | 0   | 0  |
| W <sub>8</sub> S <sub>23</sub> | 2    | 8 | -145.14                    | -147.36 | -143.37 | -166.77                         | -163.26 | -167.25 | 0                       | 100 | 85 |

Table S6: Topological quantities of the electron density at BCPs in atomic units and distances in Å of O-H, O...H, and Pb<sup>2+</sup>...O interactions in the equilibrium structures of [Pb(H<sub>2</sub>O)<sub>1-8</sub>]<sup>2+</sup> clusters at the SO-ZORA theory level. Moreover, the Wiberg bond indexes, WI, are provided. All quantities are calculated using the SR-ZORA/PBE theoretical level.

|                               | A1 | Z1 | A2 | Z2 | R      | BP     | $\rho(r_c)$ | $\nabla^2\rho(r_c)$ | $G(r_c)$ | $V(r_c)$ | $H(r_c)$ | $ V(r_c) /G(r_c)$ | $H(r_c)/\rho(r_c)$ | WI     |
|-------------------------------|----|----|----|----|--------|--------|-------------|---------------------|----------|----------|----------|-------------------|--------------------|--------|
| W <sub>1</sub> S <sub>1</sub> | 1  | 82 | 2  | 8  | 2.3107 | 2.3107 | 0.0648      | 0.2260              | 0.0677   | -0.0788  | -0.0112  | 1.1649            | -0.1722            | 0.1863 |
|                               | 2  | 8  | 3  | 1  | 0.9851 | 0.9853 | 0.3451      | -2.5969             | 0.0547   | -0.7586  | -0.7039  | 13.8769           | -2.0397            | 0.6724 |
|                               | 2  | 8  | 4  | 1  | 0.9851 | 0.9853 | 0.3451      | -2.5970             | 0.0547   | -0.7586  | -0.7039  | 13.8791           | -2.0398            | 0.6724 |
| W <sub>2</sub> S <sub>1</sub> | 1  | 82 | 2  | 8  | 2.3513 | 2.3514 | 0.0587      | 0.2040              | 0.0595   | -0.0679  | -0.0085  | 1.1422            | -0.1441            | 0.1993 |
|                               | 1  | 82 | 3  | 8  | 2.3513 | 2.3514 | 0.0587      | 0.2040              | 0.0595   | -0.0679  | -0.0085  | 1.1422            | -0.1440            | 0.1993 |
|                               | 2  | 8  | 4  | 1  | 0.9812 | 0.9819 | 0.3510      | -2.6054             | 0.0671   | -0.7856  | -0.7185  | 11.7035           | -2.0472            | 0.6882 |
|                               | 2  | 8  | 5  | 1  | 0.9806 | 0.9811 | 0.3516      | -2.6034             | 0.0689   | -0.7887  | -0.7198  | 11.4422           | -2.0473            | 0.6896 |
|                               | 3  | 8  | 6  | 1  | 0.9805 | 0.9811 | 0.3516      | -2.6034             | 0.0689   | -0.7887  | -0.7198  | 11.4425           | -2.0473            | 0.6896 |
|                               | 3  | 8  | 7  | 1  | 0.9812 | 0.9819 | 0.3510      | -2.6055             | 0.0671   | -0.7856  | -0.7185  | 11.7038           | -2.0472            | 0.6882 |
|                               | 3  | 8  | 7  | 1  | 0.9812 | 0.9819 | 0.3510      | -2.6055             | 0.0671   | -0.7856  | -0.7185  | 11.7038           | -2.0472            | 0.6882 |
| W <sub>2</sub> S <sub>2</sub> | 1  | 82 | 2  | 8  | 2.1563 | 2.1566 | 0.0936      | 0.3321              | 0.1108   | -0.1385  | -0.0277  | 1.2504            | -0.2963            | 0.3791 |
|                               | 2  | 8  | 4  | 1  | 0.9806 | 0.9815 | 0.3528      | -2.3918             | 0.1072   | -0.8124  | -0.7052  | 7.5766            | -1.9986            | 0.7232 |
|                               | 3  | 8  | 5  | 1  | 1.0730 | 1.0737 | 0.2589      | -1.5130             | 0.0497   | -0.4777  | -0.4280  | 9.6095            | -1.6533            | 0.5261 |
|                               | 3  | 8  | 6  | 1  | 0.9824 | 0.9849 | 0.3503      | -2.7126             | 0.0476   | -0.7734  | -0.7258  | 16.2413           | -2.0721            | 0.6785 |
|                               | 3  | 8  | 7  | 1  | 0.9824 | 0.9849 | 0.3503      | -2.7126             | 0.0476   | -0.7734  | -0.7258  | 16.2405           | -2.0721            | 0.6785 |
|                               | 2  | 8  | 5  | 1  | 1.4677 | 1.4679 | 0.0842      | 0.0525              | 0.0552   | -0.0973  | -0.0421  | 1.7625            | -0.4999            | 0.1999 |
|                               | 2  | 8  | 5  | 1  | 1.4677 | 1.4679 | 0.0842      | 0.0525              | 0.0552   | -0.0973  | -0.0421  | 1.7625            | -0.4999            | 0.1999 |
| W <sub>3</sub> S <sub>1</sub> | 1  | 82 | 2  | 8  | 2.3974 | 2.3980 | 0.0529      | 0.1805              | 0.0515   | -0.0579  | -0.0064  | 1.1240            | -0.1206            | 0.2017 |
|                               | 1  | 82 | 3  | 8  | 2.3974 | 2.3980 | 0.0529      | 0.1805              | 0.0515   | -0.0579  | -0.0064  | 1.1239            | -0.1206            | 0.2017 |
|                               | 1  | 82 | 4  | 8  | 2.3974 | 2.3980 | 0.0529      | 0.1805              | 0.0515   | -0.0579  | -0.0064  | 1.1239            | -0.1206            | 0.2017 |
|                               | 2  | 8  | 5  | 1  | 0.9786 | 0.9796 | 0.3551      | -2.5945             | 0.0787   | -0.8061  | -0.7274  | 10.2374           | -2.0486            | 0.7013 |
|                               | 2  | 8  | 6  | 1  | 0.9779 | 0.9788 | 0.3559      | -2.5982             | 0.0802   | -0.8099  | -0.7297  | 10.1012           | -2.0503            | 0.7032 |
|                               | 3  | 8  | 7  | 1  | 0.9786 | 0.9796 | 0.3551      | -2.5948             | 0.0787   | -0.8062  | -0.7274  | 10.2389           | -2.0487            | 0.7013 |
|                               | 3  | 8  | 8  | 1  | 0.9779 | 0.9788 | 0.3559      | -2.5985             | 0.0802   | -0.8100  | -0.7298  | 10.1031           | -2.0504            | 0.7032 |
|                               | 4  | 8  | 9  | 1  | 0.9787 | 0.9796 | 0.3550      | -2.5936             | 0.0787   | -0.8059  | -0.7271  | 10.2354           | -2.0483            | 0.7013 |
|                               | 4  | 8  | 10 | 1  | 0.9777 | 0.9787 | 0.3560      | -2.6003             | 0.0802   | -0.8104  | -0.7302  | 10.1100           | -2.0510            | 0.7033 |
|                               | 4  | 8  | 10 | 1  | 0.9777 | 0.9787 | 0.3560      | -2.6003             | 0.0802   | -0.8104  | -0.7302  | 10.1100           | -2.0510            | 0.7033 |
| W <sub>3</sub> S <sub>2</sub> | 1  | 82 | 2  | 8  | 2.3875 | 2.3878 | 0.0537      | 0.1871              | 0.0531   | -0.0595  | -0.0064  | 1.1199            | -0.1186            | 0.1873 |
|                               | 1  | 82 | 4  | 8  | 2.2160 | 2.2161 | 0.0809      | 0.2854              | 0.0910   | -0.1107  | -0.0197  | 1.2163            | -0.2434            | 0.3250 |
|                               | 2  | 8  | 5  | 1  | 0.9789 | 0.9797 | 0.3545      | -2.6011             | 0.0763   | -0.8028  | -0.7265  | 10.5261           | -2.0496            | 0.6990 |
|                               | 2  | 8  | 6  | 1  | 0.9780 | 0.9787 | 0.3554      | -2.5988             | 0.0788   | -0.8073  | -0.7285  | 10.2439           | -2.0500            | 0.7009 |
|                               | 3  | 8  | 7  | 1  | 0.9772 | 0.9790 | 0.3575      | -2.6603             | 0.0737   | -0.8126  | -0.7388  | 11.0190           | -2.0664            | 0.7017 |
|                               | 3  | 8  | 8  | 1  | 0.9773 | 0.9791 | 0.3574      | -2.6591             | 0.0735   | -0.8119  | -0.7383  | 11.0389           | -2.0660            | 0.7015 |
|                               | 4  | 8  | 9  | 1  | 1.2069 | 1.2071 | 0.1728      | -0.4493             | 0.0791   | -0.2704  | -0.1914  | 3.4209            | -1.1075            | 0.3912 |
|                               | 4  | 8  | 10 | 1  | 0.9766 | 0.9770 | 0.3578      | -2.4800             | 0.1043   | -0.8287  | -0.7243  | 7.9420            | -2.0246            | 0.7195 |
|                               | 3  | 8  | 9  | 1  | 1.2261 | 1.2267 | 0.1640      | -0.3760             | 0.0784   | -0.2507  | -0.1724  | 3.1997            | -1.0512            | 0.3738 |
|                               | 3  | 8  | 9  | 1  | 1.2261 | 1.2267 | 0.1640      | -0.3760             | 0.0784   | -0.2507  | -0.1724  | 3.1997            | -1.0512            | 0.3738 |
| W <sub>3</sub> S <sub>3</sub> | 1  | 82 | 3  | 8  | 2.3659 | 2.3659 | 0.0561      | 0.1981              | 0.0566   | -0.0638  | -0.0071  | 1.1255            | -0.1267            | 0.1942 |
|                               | 1  | 82 | 4  | 8  | 2.2404 | 2.2406 | 0.0763      | 0.2685              | 0.0842   | -0.1012  | -0.0170  | 1.2025            | -0.2234            | 0.2972 |
|                               | 2  | 8  | 5  | 1  | 0.9771 | 0.9787 | 0.3585      | -2.6150             | 0.0836   | -0.8209  | -0.7373  | 9.8216            | -2.0568            | 0.7098 |
|                               | 2  | 8  | 6  | 1  | 0.9771 | 0.9786 | 0.3586      | -2.6162             | 0.0836   | -0.8212  | -0.7376  | 9.8247            | -2.0572            | 0.7099 |
|                               | 3  | 8  | 7  | 1  | 0.9789 | 0.9796 | 0.3540      | -2.6114             | 0.0734   | -0.7997  | -0.7263  | 10.8884           | -2.0516            | 0.6960 |
|                               | 3  | 8  | 8  | 1  | 0.9776 | 0.9782 | 0.3556      | -2.6126             | 0.0771   | -0.8074  | -0.7303  | 10.4716           | -2.0534            | 0.6996 |
|                               | 4  | 8  | 9  | 1  | 1.1245 | 1.1245 | 0.2202      | -0.9417             | 0.0737   | -0.3828  | -0.3091  | 5.1958            | -1.4034            | 0.4684 |
|                               | 4  | 8  | 10 | 1  | 0.9777 | 0.9780 | 0.3561      | -2.5148             | 0.0945   | -0.8178  | -0.7233  | 8.6495            | -2.0310            | 0.7097 |
|                               | 2  | 8  | 9  | 1  | 1.3307 | 1.3313 | 0.1230      | -0.0829             | 0.0735   | -0.1678  | -0.0943  | 2.2819            | -0.7663            | 0.2913 |
|                               | 2  | 8  | 9  | 1  | 1.3307 | 1.3313 | 0.1230      | -0.0829             | 0.0735   | -0.1678  | -0.0943  | 2.2819            | -0.7663            | 0.2913 |
| W <sub>4</sub> S <sub>1</sub> | 1  | 82 | 2  | 8  | 2.4258 | 2.4267 | 0.0496      | 0.1682              | 0.0472   | -0.0524  | -0.0052  | 1.1100            | -0.1048            | 0.1938 |
|                               | 1  | 82 | 3  | 8  | 2.4239 | 2.4246 | 0.0497      | 0.1695              | 0.0475   | -0.0527  | -0.0052  | 1.1088            | -0.1041            | 0.1934 |
|                               | 1  | 82 | 4  | 8  | 2.2793 | 2.2794 | 0.0699      | 0.2412              | 0.0743   | -0.0883  | -0.0140  | 1.1883            | -0.2000            | 0.2793 |
|                               | 2  | 8  | 6  | 1  | 0.9767 | 0.9778 | 0.3579      | -2.5905             | 0.0862   | -0.8201  | -0.7338  | 9.5111            | -2.0505            | 0.7107 |
|                               | 2  | 8  | 7  | 1  | 0.9773 | 0.9784 | 0.3571      | -2.5883             | 0.0848   | -0.8167  | -0.7319  | 9.6291            | -2.0492            | 0.7086 |
|                               | 3  | 8  | 8  | 1  | 0.9765 | 0.9775 | 0.3582      | -2.5935             | 0.0865   | -0.8214  | -0.7349  | 9.4966            | -2.0515            | 0.7108 |
|                               | 3  | 8  | 9  | 1  | 0.9774 | 0.9784 | 0.3571      | -2.5888             | 0.0846   | -0.8163  | -0.7318  | 9.6539            | -2.0493            | 0.7083 |
|                               | 4  | 8  | 10 | 1  | 0.9749 | 0.9753 | 0.3597      | -2.5291             | 0.1008   | -0.8339  | -0.7331  | 8.2706            | -2.0381            | 0.7178 |
|                               | 4  | 8  | 11 | 1  | 1.0860 | 1.0861 | 0.2480      | -1.2903             | 0.0661   | -0.4547  | -0.3886  | 6.8838            | -1.5670            | 0.5116 |
|                               | 5  | 8  | 12 | 1  | 0.9740 | 0.9755 | 0.3621      | -2.6157             | 0.0921   | -0.8382  | -0.7460  | 9.0980            | -2.0606            | 0.7200 |
|                               | 5  | 8  | 13 | 1  | 0.9740 | 0.9755 | 0.3620      | -2.6160             | 0.0920   | -0.8380  | -0.7460  | 9.1075            | -2.0606            | 0.7201 |
|                               | 5  | 8  | 11 | 1  | 1.3937 | 1.3944 | 0.1026      | 0.0158              | 0.0672   | -0.1304  | -0.0632  | 1.9413            | -0.6164            | 0.2401 |
|                               | 5  | 8  | 11 | 1  | 1.3937 | 1.3944 | 0.1026      | 0.0158              | 0.0672   | -0.1304  | -0.0632  | 1.9413            | -0.6164            | 0.2401 |
| W <sub>4</sub> S <sub>2</sub> | 1  | 82 | 2  | 8  | 2.3535 | 2.3539 | 0.0584      | 0.2018              | 0.0589   | -0.0673  | -0.0084  | 1.1431            | -0.1442            | 0.2241 |
|                               | 1  | 82 | 3  | 8  | 2.4112 | 2.4112 | 0.0508      | 0.1761              | 0.0493   | -0.0546  | -0.0053  | 1.1076            | -0.1046            | 0.1931 |
|                               | 1  | 82 | 5  | 8  | 2.3531 | 2.3535 | 0.0585      | 0.2019              | 0.0590   | -0.0674  | -0.0085  | 1.1437            | -0.1449            | 0.2247 |

|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|-------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>4</sub> S <sub>3</sub> | 2 | 8  | 6  | 1 | 0.9758 | 0.9766 | 0.3575 | -2.5971 | 0.0842 | -0.8176 | -0.7334 | 9.7146  | -2.0517 | 0.7041 |
|                               | 2 | 8  | 7  | 1 | 1.0031 | 1.0042 | 0.3264 | -2.2843 | 0.0635 | -0.6980 | -0.6345 | 10.9994 | -1.9443 | 0.6408 |
|                               | 3 | 8  | 8  | 1 | 0.9761 | 0.9768 | 0.3580 | -2.6030 | 0.0845 | -0.8197 | -0.7352 | 9.7016  | -2.0536 | 0.7078 |
|                               | 3 | 8  | 9  | 1 | 0.9770 | 0.9778 | 0.3568 | -2.5999 | 0.0821 | -0.8142 | -0.7321 | 9.9185  | -2.0516 | 0.7058 |
|                               | 4 | 8  | 10 | 1 | 0.9771 | 0.9781 | 0.3592 | -2.5721 | 0.0926 | -0.8282 | -0.7356 | 8.9470  | -2.0476 | 0.7174 |
|                               | 4 | 8  | 11 | 1 | 0.9769 | 0.9779 | 0.3595 | -2.5733 | 0.0930 | -0.8294 | -0.7363 | 8.9162  | -2.0482 | 0.7179 |
|                               | 5 | 8  | 12 | 1 | 0.9756 | 0.9764 | 0.3577 | -2.6002 | 0.0843 | -0.8186 | -0.7343 | 9.7151  | -2.0526 | 0.7043 |
|                               | 5 | 8  | 13 | 1 | 1.0037 | 1.0049 | 0.3257 | -2.2754 | 0.0634 | -0.6957 | -0.6323 | 10.9732 | -1.9414 | 0.6398 |
|                               | 4 | 8  | 7  | 1 | 1.7345 | 1.7415 | 0.0431 | 0.1018  | 0.0321 | -0.0389 | -0.0067 | 1.2086  | -0.1558 | 0.0801 |
|                               | 4 | 8  | 13 | 1 | 1.7299 | 1.7370 | 0.0435 | 0.1022  | 0.0325 | -0.0395 | -0.0070 | 1.2142  | -0.1599 | 0.0814 |
|                               | 1 | 82 | 2  | 8 | 2.4260 | 2.4261 | 0.0490 | 0.1688  | 0.0470 | -0.0517 | -0.0048 | 1.1015  | -0.0973 | 0.1901 |
|                               | 1 | 82 | 3  | 8 | 2.3909 | 2.3914 | 0.0533 | 0.1839  | 0.0523 | -0.0587 | -0.0064 | 1.1214  | -0.1192 | 0.2095 |
|                               | 1 | 82 | 4  | 8 | 2.5411 | 2.5422 | 0.0392 | 0.1294  | 0.0345 | -0.0367 | -0.0022 | 1.0635  | -0.0560 | 0.1523 |
|                               | 1 | 82 | 5  | 8 | 2.5421 | 2.5432 | 0.0391 | 0.1291  | 0.0344 | -0.0366 | -0.0022 | 1.0632  | -0.0557 | 0.1521 |
|                               | 2 | 8  | 6  | 1 | 0.9766 | 0.9774 | 0.3574 | -2.5977 | 0.0838 | -0.8169 | -0.7332 | 9.7535  | -2.0517 | 0.7074 |
|                               | 2 | 8  | 7  | 1 | 0.9760 | 0.9768 | 0.3583 | -2.5974 | 0.0860 | -0.8213 | -0.7353 | 9.5539  | -2.0525 | 0.7100 |
| W <sub>4</sub> S <sub>4</sub> | 3 | 8  | 8  | 1 | 0.9769 | 0.9781 | 0.3576 | -2.6029 | 0.0836 | -0.8178 | -0.7343 | 9.7882  | -2.0532 | 0.7076 |
|                               | 3 | 8  | 9  | 1 | 0.9769 | 0.9781 | 0.3576 | -2.6027 | 0.0835 | -0.8177 | -0.7342 | 9.7898  | -2.0531 | 0.7075 |
|                               | 4 | 8  | 10 | 1 | 0.9766 | 0.9776 | 0.3589 | -2.5571 | 0.0942 | -0.8277 | -0.7335 | 8.7836  | -2.0438 | 0.7189 |
|                               | 4 | 8  | 11 | 1 | 0.9758 | 0.9768 | 0.3599 | -2.5596 | 0.0961 | -0.8322 | -0.7360 | 8.6552  | -2.0454 | 0.7209 |
|                               | 5 | 8  | 12 | 1 | 0.9758 | 0.9767 | 0.3599 | -2.5600 | 0.0962 | -0.8324 | -0.7362 | 8.6535  | -2.0455 | 0.7210 |
|                               | 5 | 8  | 13 | 1 | 0.9767 | 0.9776 | 0.3589 | -2.5563 | 0.0943 | -0.8277 | -0.7334 | 8.7777  | -2.0436 | 0.7190 |
|                               | 1 | 82 | 3  | 8 | 2.2617 | 2.2618 | 0.0722 | 0.2556  | 0.0786 | -0.0932 | -0.0147 | 1.1868  | -0.2032 | 0.2859 |
|                               | 1 | 82 | 4  | 8 | 2.2624 | 2.2625 | 0.0721 | 0.2550  | 0.0784 | -0.0930 | -0.0146 | 1.1867  | -0.2029 | 0.2860 |
|                               | 2 | 8  | 6  | 1 | 0.9746 | 0.9761 | 0.3612 | -2.6246 | 0.0886 | -0.8333 | -0.7447 | 9.4069  | -2.0618 | 0.7163 |
|                               | 2 | 8  | 7  | 1 | 0.9746 | 0.9761 | 0.3612 | -2.6251 | 0.0885 | -0.8333 | -0.7448 | 9.4156  | -2.0619 | 0.7161 |
|                               | 3 | 8  | 8  | 1 | 0.9749 | 0.9751 | 0.3594 | -2.5288 | 0.1000 | -0.8323 | -0.7322 | 8.3190  | -2.0377 | 0.7160 |
|                               | 3 | 8  | 9  | 1 | 1.1041 | 1.1042 | 0.2345 | -1.1202 | 0.0694 | -0.4188 | -0.3494 | 6.0370  | -1.4900 | 0.4912 |
|                               | 4 | 8  | 10 | 1 | 1.1042 | 1.1042 | 0.2345 | -1.1198 | 0.0694 | -0.4187 | -0.3493 | 6.0352  | -1.4898 | 0.4811 |
|                               | 4 | 8  | 11 | 1 | 0.9749 | 0.9751 | 0.3594 | -2.5285 | 0.1001 | -0.8324 | -0.7322 | 8.3142  | -2.0376 | 0.7163 |
|                               | 5 | 8  | 12 | 1 | 0.9746 | 0.9761 | 0.3612 | -2.6247 | 0.0886 | -0.8333 | -0.7447 | 9.4076  | -2.0618 | 0.7164 |
|                               | 5 | 8  | 13 | 1 | 0.9746 | 0.9761 | 0.3612 | -2.6251 | 0.0885 | -0.8333 | -0.7448 | 9.4163  | -2.0619 | 0.7163 |
| W <sub>4</sub> S <sub>5</sub> | 2 | 8  | 10 | 1 | 1.3594 | 1.3601 | 0.1128 | -0.0284 | 0.0709 | -0.1488 | -0.0780 | 2.1001  | -0.6912 | 0.2633 |
|                               | 5 | 8  | 9  | 1 | 1.3595 | 1.3602 | 0.1128 | -0.0283 | 0.0709 | -0.1488 | -0.0779 | 2.0998  | -0.6910 | 0.2650 |
|                               | 1 | 82 | 3  | 8 | 2.1395 | 2.1399 | 0.0971 | 0.3454  | 0.1165 | -0.1466 | -0.0301 | 1.2588  | -0.3103 | 0.4637 |
|                               | 1 | 82 | 4  | 8 | 2.4199 | 2.4201 | 0.0494 | 0.1742  | 0.0481 | -0.0527 | -0.0046 | 1.0953  | -0.0929 | 0.1750 |
|                               | 2 | 8  | 6  | 1 | 0.9751 | 0.9769 | 0.3604 | -2.6447 | 0.0832 | -0.8276 | -0.7444 | 9.9452  | -2.0656 | 0.7115 |
|                               | 2 | 8  | 7  | 1 | 0.9746 | 0.9763 | 0.3609 | -2.6478 | 0.0840 | -0.8299 | -0.7459 | 9.8825  | -2.0668 | 0.7127 |
|                               | 3 | 8  | 8  | 1 | 0.9755 | 0.9766 | 0.3596 | -2.3828 | 0.1249 | -0.8456 | -0.7206 | 6.7682  | -2.0041 | 0.7479 |
|                               | 4 | 8  | 10 | 1 | 0.9768 | 0.9777 | 0.3576 | -2.5983 | 0.0841 | -0.8178 | -0.7337 | 9.7223  | -2.0520 | 0.7085 |
|                               | 4 | 8  | 11 | 1 | 0.9758 | 0.9766 | 0.3585 | -2.5986 | 0.0865 | -0.8226 | -0.7361 | 9.5129  | -2.0531 | 0.7097 |
|                               | 5 | 8  | 9  | 1 | 1.0150 | 1.0166 | 0.3133 | -2.1798 | 0.0517 | -0.6483 | -0.5966 | 12.5423 | -1.9043 | 0.6121 |
|                               | 5 | 8  | 12 | 1 | 0.9743 | 0.9761 | 0.3612 | -2.6544 | 0.0836 | -0.8308 | -0.7472 | 9.9363  | -2.0686 | 0.7120 |
|                               | 5 | 8  | 13 | 1 | 1.1458 | 1.1461 | 0.2066 | -0.8168 | 0.0712 | -0.3465 | -0.2754 | 4.8693  | -1.3329 | 0.4415 |
|                               | 3 | 8  | 9  | 1 | 1.6619 | 1.6628 | 0.0508 | 0.1001  | 0.0367 | -0.0484 | -0.0117 | 1.3184  | -0.2299 | 0.1022 |
|                               | 2 | 8  | 13 | 1 | 1.2902 | 1.2908 | 0.1363 | -0.1688 | 0.0755 | -0.1931 | -0.1177 | 2.5592  | -0.8636 | 0.3189 |
| W <sub>5</sub> S <sub>1</sub> | 1 | 82 | 6  | 8 | 2.2948 | 2.2948 | 0.0669 | 0.2340  | 0.0707 | -0.0829 | -0.0122 | 1.1722  | -0.1819 | 0.2712 |
|                               | 1 | 82 | 2  | 8 | 2.3820 | 2.3826 | 0.0547 | 0.1877  | 0.0539 | -0.0609 | -0.0070 | 1.1300  | -0.1281 | 0.2149 |
|                               | 1 | 82 | 3  | 8 | 2.3819 | 2.3825 | 0.0548 | 0.1877  | 0.0539 | -0.0610 | -0.0070 | 1.1303  | -0.1284 | 0.2151 |
|                               | 2 | 8  | 7  | 1 | 0.9996 | 1.0008 | 0.3307 | -2.3189 | 0.0675 | -0.7148 | -0.6473 | 10.5842 | -1.9574 | 0.6502 |
|                               | 2 | 8  | 8  | 1 | 0.9745 | 0.9754 | 0.3596 | -2.5909 | 0.0903 | -0.8284 | -0.7381 | 9.1714  | -2.0524 | 0.7117 |
|                               | 3 | 8  | 9  | 1 | 0.9745 | 0.9754 | 0.3597 | -2.5921 | 0.0903 | -0.8286 | -0.7383 | 9.1783  | -2.0527 | 0.7118 |
|                               | 3 | 8  | 10 | 1 | 0.9994 | 1.0007 | 0.3308 | -2.3212 | 0.0675 | -0.7153 | -0.6478 | 10.5971 | -1.9581 | 0.6505 |
|                               | 4 | 8  | 11 | 1 | 0.9733 | 0.9747 | 0.3632 | -2.6027 | 0.0971 | -0.8449 | -0.7478 | 8.6995  | -2.0588 | 0.7257 |
|                               | 4 | 8  | 12 | 1 | 0.9732 | 0.9746 | 0.3633 | -2.6043 | 0.0971 | -0.8453 | -0.7482 | 8.7039  | -2.0593 | 0.7257 |
|                               | 5 | 8  | 13 | 1 | 0.9759 | 0.9769 | 0.3608 | -2.5743 | 0.0961 | -0.8357 | -0.7397 | 8.6984  | -2.0498 | 0.7220 |
|                               | 5 | 8  | 14 | 1 | 0.9763 | 0.9773 | 0.3604 | -2.5683 | 0.0959 | -0.8339 | -0.7380 | 8.6932  | -2.0479 | 0.7217 |
|                               | 6 | 8  | 15 | 1 | 0.9734 | 0.9735 | 0.3612 | -2.5495 | 0.1011 | -0.8396 | -0.7385 | 8.3021  | -2.0445 | 0.7187 |
|                               | 6 | 8  | 16 | 1 | 1.0637 | 1.0638 | 0.2660 | -1.5251 | 0.0618 | -0.5049 | -0.4431 | 8.1709  | -1.6654 | 0.5385 |
|                               | 4 | 8  | 16 | 1 | 1.4400 | 1.4411 | 0.0904 | 0.0588  | 0.0620 | -0.1094 | -0.0473 | 1.7632  | -0.5239 | 0.2073 |
|                               | 5 | 8  | 7  | 1 | 1.7511 | 1.7584 | 0.0413 | 0.1011  | 0.0310 | -0.0367 | -0.0057 | 1.1843  | -0.1385 | 0.0739 |
|                               | 5 | 8  | 10 | 1 | 1.7520 | 1.7594 | 0.0411 | 0.1011  | 0.0309 | -0.0366 | -0.0056 | 1.1825  | -0.1372 | 0.0735 |
| W <sub>5</sub> S <sub>2</sub> | 1 | 82 | 2  | 8 | 2.4412 | 2.4421 | 0.0476 | 0.1625  | 0.0451 | -0.0495 | -0.0044 | 1.0984  | -0.0931 | 0.1875 |
|                               | 1 | 82 | 4  | 8 | 2.3113 | 2.3116 | 0.0649 | 0.2227  | 0.0672 | -0.0787 | -0.0115 | 1.1717  | -0.1778 | 0.2653 |
|                               | 1 | 82 | 3  | 8 | 2.3088 | 2.3091 | 0.0653 | 0.2238  | 0.0677 | -0.0794 | -0.0117 | 1.1734  | -0.1798 | 0.2644 |
|                               | 2 | 8  | 7  | 1 | 0.9763 | 0.9774 | 0.3586 | -2.5862 | 0.0888 | -0.8241 | -0.7353 | 9.2847  | -2.0503 | 0.7133 |

|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|-------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>5</sub> S <sub>3</sub> | 2 | 8  | 8  | 1 | 0.9755 | 0.9767 | 0.3596 | -2.5901 | 0.0905 | -0.8286 | -0.7380 | 9.1532  | -2.0522 | 0.7160 |
|                               | 3 | 8  | 9  | 1 | 0.9739 | 0.9744 | 0.3610 | -2.5378 | 0.1025 | -0.8394 | -0.7369 | 8.1902  | -2.0415 | 0.7210 |
|                               | 3 | 8  | 10 | 1 | 1.0613 | 1.0615 | 0.2686 | -1.5538 | 0.0620 | -0.5125 | -0.4505 | 8.2634  | -1.6773 | 0.5430 |
|                               | 4 | 8  | 11 | 1 | 0.9741 | 0.9746 | 0.3609 | -2.5374 | 0.1023 | -0.8390 | -0.7367 | 8.2003  | -2.0413 | 0.7207 |
|                               | 4 | 8  | 12 | 1 | 1.0601 | 1.0603 | 0.2698 | -1.5702 | 0.0617 | -0.5159 | -0.4542 | 8.3660  | -1.6838 | 0.5452 |
|                               | 5 | 8  | 13 | 1 | 0.9736 | 0.9750 | 0.3630 | -2.5947 | 0.0980 | -0.8447 | -0.7467 | 8.6182  | -2.0568 | 0.7264 |
|                               | 5 | 8  | 14 | 1 | 0.9731 | 0.9745 | 0.3635 | -2.6026 | 0.0977 | -0.8461 | -0.7484 | 8.6580  | -2.0590 | 0.7264 |
|                               | 6 | 8  | 15 | 1 | 0.9732 | 0.9746 | 0.3634 | -2.6012 | 0.0979 | -0.8462 | -0.7482 | 8.6407  | -2.0587 | 0.7267 |
|                               | 6 | 8  | 16 | 1 | 0.9733 | 0.9748 | 0.3633 | -2.6002 | 0.0977 | -0.8454 | -0.7477 | 8.6542  | -2.0583 | 0.7262 |
|                               | 5 | 8  | 12 | 1 | 1.4517 | 1.4524 | 0.0876 | 0.0665  | 0.0607 | -0.1048 | -0.0441 | 1.7263  | -0.5032 | 0.2004 |
|                               | 6 | 8  | 10 | 1 | 1.4483 | 1.4494 | 0.0885 | 0.0636  | 0.0611 | -0.1063 | -0.0452 | 1.7399  | -0.5106 | 0.2032 |
|                               | 1 | 82 | 3  | 8 | 2.4305 | 2.4306 | 0.0484 | 0.1682  | 0.0465 | -0.0509 | -0.0044 | 1.0951  | -0.0914 | 0.1837 |
|                               | 1 | 82 | 5  | 8 | 2.3547 | 2.3551 | 0.0579 | 0.2021  | 0.0586 | -0.0666 | -0.0081 | 1.1374  | -0.1390 | 0.2248 |
|                               | 1 | 82 | 6  | 8 | 2.2812 | 2.2814 | 0.0697 | 0.2396  | 0.0739 | -0.0878 | -0.0140 | 1.1890  | -0.2001 | 0.2835 |
|                               | 2 | 8  | 7  | 1 | 0.9731 | 0.9744 | 0.3636 | -2.5949 | 0.0993 | -0.8474 | -0.7481 | 8.5296  | -2.0574 | 0.7278 |
| W <sub>5</sub> S <sub>4</sub> | 2 | 8  | 8  | 1 | 0.9726 | 0.9740 | 0.3640 | -2.6026 | 0.0991 | -0.8488 | -0.7497 | 8.5684  | -2.0596 | 0.7278 |
|                               | 3 | 8  | 9  | 1 | 0.9760 | 0.9768 | 0.3585 | -2.5948 | 0.0869 | -0.8225 | -0.7356 | 9.4634  | -2.0521 | 0.7112 |
|                               | 3 | 8  | 10 | 1 | 0.9747 | 0.9756 | 0.3600 | -2.6010 | 0.0895 | -0.8292 | -0.7397 | 9.2661  | -2.0551 | 0.7139 |
|                               | 4 | 8  | 11 | 1 | 0.9756 | 0.9767 | 0.3613 | -2.5657 | 0.0987 | -0.8387 | -0.7401 | 8.5018  | -2.0483 | 0.7250 |
|                               | 4 | 8  | 12 | 1 | 0.9761 | 0.9771 | 0.3609 | -2.5591 | 0.0987 | -0.8371 | -0.7385 | 8.4832  | -2.0463 | 0.7250 |
|                               | 5 | 8  | 13 | 1 | 1.0057 | 1.0069 | 0.3233 | -2.2425 | 0.0636 | -0.6878 | -0.6242 | 10.8145 | -1.9306 | 0.6342 |
|                               | 5 | 8  | 14 | 1 | 0.9740 | 0.9747 | 0.3596 | -2.6036 | 0.0881 | -0.8272 | -0.7390 | 9.3852  | -2.0553 | 0.7084 |
|                               | 6 | 8  | 15 | 1 | 0.9891 | 0.9897 | 0.3425 | -2.4050 | 0.0804 | -0.7622 | -0.6817 | 9.4740  | -1.9907 | 0.6741 |
|                               | 6 | 8  | 16 | 1 | 1.0508 | 1.0511 | 0.2771 | -1.6732 | 0.0593 | -0.5369 | -0.4776 | 9.0555  | -1.7235 | 0.5533 |
|                               | 2 | 8  | 16 | 1 | 1.4716 | 1.4723 | 0.0828 | 0.0795  | 0.0584 | -0.0969 | -0.0385 | 1.6594  | -0.4652 | 0.1868 |
|                               | 4 | 8  | 13 | 1 | 1.6944 | 1.7000 | 0.0476 | 0.1060  | 0.0356 | -0.0448 | -0.0091 | 1.2567  | -0.1920 | 0.0915 |
|                               | 4 | 8  | 15 | 1 | 1.8756 | 1.8850 | 0.0303 | 0.0858  | 0.0228 | -0.0241 | -0.0013 | 1.0577  | -0.0434 | 0.0465 |
|                               | 1 | 82 | 2  | 8 | 2.5335 | 2.5340 | 0.0390 | 0.1326  | 0.0350 | -0.0368 | -0.0018 | 1.0522  | -0.0468 | 0.1505 |
|                               | 1 | 82 | 4  | 8 | 2.4830 | 2.4843 | 0.0445 | 0.1473  | 0.0406 | -0.0443 | -0.0037 | 1.0924  | -0.0843 | 0.1809 |
|                               | 1 | 82 | 5  | 8 | 2.3654 | 2.3659 | 0.0567 | 0.1955  | 0.0566 | -0.0644 | -0.0078 | 1.1370  | -0.1368 | 0.2289 |
| W <sub>5</sub> S <sub>5</sub> | 1 | 82 | 6  | 8 | 2.4228 | 2.4236 | 0.0496 | 0.1698  | 0.0475 | -0.0526 | -0.0051 | 1.1065  | -0.1021 | 0.2001 |
|                               | 2 | 8  | 7  | 1 | 0.9752 | 0.9761 | 0.3604 | -2.5743 | 0.0951 | -0.8337 | -0.7386 | 8.7706  | -2.0493 | 0.7205 |
|                               | 2 | 8  | 8  | 1 | 0.9744 | 0.9754 | 0.3613 | -2.5703 | 0.0979 | -0.8383 | -0.7404 | 8.5665  | -2.0493 | 0.7230 |
|                               | 3 | 8  | 9  | 1 | 0.9759 | 0.9770 | 0.3609 | -2.5668 | 0.0974 | -0.8366 | -0.7391 | 8.5865  | -2.0481 | 0.7234 |
|                               | 3 | 8  | 10 | 1 | 0.9756 | 0.9766 | 0.3611 | -2.5731 | 0.0970 | -0.8373 | -0.7403 | 8.6303  | -2.0498 | 0.7232 |
|                               | 4 | 8  | 11 | 1 | 0.9744 | 0.9754 | 0.3611 | -2.5616 | 0.0988 | -0.8379 | -0.7392 | 8.4837  | -2.0471 | 0.7219 |
|                               | 4 | 8  | 12 | 1 | 0.9936 | 0.9949 | 0.3388 | -2.3755 | 0.0767 | -0.7474 | -0.6706 | 9.7386  | -1.9796 | 0.6714 |
|                               | 5 | 8  | 13 | 1 | 0.9736 | 0.9744 | 0.3610 | -2.5923 | 0.0934 | -0.8348 | -0.7414 | 8.9409  | -2.0541 | 0.7152 |
|                               | 5 | 8  | 14 | 1 | 1.0035 | 1.0047 | 0.3262 | -2.2722 | 0.0650 | -0.6981 | -0.6331 | 10.7332 | -1.9410 | 0.6402 |
|                               | 6 | 8  | 15 | 1 | 0.9752 | 0.9765 | 0.3601 | -2.6015 | 0.0899 | -0.8301 | -0.7402 | 9.2381  | -2.0554 | 0.7162 |
|                               | 6 | 8  | 16 | 1 | 0.9754 | 0.9765 | 0.3596 | -2.5941 | 0.0899 | -0.8283 | -0.7384 | 9.2152  | -2.0531 | 0.7145 |
|                               | 3 | 8  | 12 | 1 | 1.8161 | 1.8256 | 0.0352 | 0.0939  | 0.0265 | -0.0295 | -0.0030 | 1.1135  | -0.0855 | 0.0570 |
|                               | 3 | 8  | 14 | 1 | 1.7077 | 1.7125 | 0.0458 | 0.1049  | 0.0343 | -0.0425 | -0.0081 | 1.2364  | -0.1771 | 0.0858 |
|                               | 1 | 82 | 2  | 8 | 2.5647 | 2.5661 | 0.0370 | 0.1223  | 0.0322 | -0.0338 | -0.0016 | 1.0501  | -0.0436 | 0.1462 |
|                               | 1 | 82 | 3  | 8 | 2.4089 | 2.4098 | 0.0512 | 0.1755  | 0.0495 | -0.0552 | -0.0057 | 1.1144  | -0.1107 | 0.2060 |
| W <sub>5</sub> S <sub>6</sub> | 1 | 82 | 4  | 8 | 2.5644 | 2.5658 | 0.0370 | 0.1223  | 0.0322 | -0.0338 | -0.0016 | 1.0503  | -0.0437 | 0.1463 |
|                               | 1 | 82 | 5  | 8 | 2.3086 | 2.3086 | 0.0649 | 0.2246  | 0.0675 | -0.0788 | -0.0113 | 1.1681  | -0.1749 | 0.2578 |
|                               | 2 | 8  | 7  | 1 | 0.9746 | 0.9757 | 0.3616 | -2.5591 | 0.1004 | -0.8406 | -0.7402 | 8.3710  | -2.0471 | 0.7264 |
|                               | 2 | 8  | 8  | 1 | 0.9755 | 0.9765 | 0.3606 | -2.5581 | 0.0981 | -0.8357 | -0.7376 | 8.5195  | -2.0457 | 0.7240 |
|                               | 3 | 8  | 9  | 1 | 0.9755 | 0.9769 | 0.3597 | -2.6050 | 0.0882 | -0.8277 | -0.7395 | 9.3818  | -2.0557 | 0.7136 |
|                               | 3 | 8  | 10 | 1 | 0.9755 | 0.9769 | 0.3597 | -2.6051 | 0.0882 | -0.8277 | -0.7395 | 9.3813  | -2.0558 | 0.7136 |
|                               | 4 | 8  | 11 | 1 | 0.9755 | 0.9765 | 0.3605 | -2.5580 | 0.0981 | -0.8356 | -0.7376 | 8.5207  | -2.0457 | 0.7240 |
|                               | 4 | 8  | 12 | 1 | 0.9746 | 0.9757 | 0.3616 | -2.5600 | 0.1003 | -0.8407 | -0.7403 | 8.3779  | -2.0473 | 0.7263 |
|                               | 5 | 8  | 13 | 1 | 0.9732 | 0.9735 | 0.3615 | -2.5457 | 0.1025 | -0.8415 | -0.7390 | 8.2078  | -2.0439 | 0.7211 |
|                               | 5 | 8  | 14 | 1 | 1.0564 | 1.0566 | 0.2722 | -1.6068 | 0.0604 | -0.5225 | -0.4621 | 8.6526  | -1.6978 | 0.5473 |
|                               | 6 | 8  | 15 | 1 | 0.9730 | 0.9744 | 0.3636 | -2.6012 | 0.0983 | -0.8470 | -0.7486 | 8.6124  | -2.0589 | 0.7270 |
|                               | 6 | 8  | 16 | 1 | 0.9730 | 0.9744 | 0.3636 | -2.5991 | 0.0987 | -0.8471 | -0.7484 | 8.5865  | -2.0584 | 0.7273 |
|                               | 6 | 8  | 14 | 1 | 1.4582 | 1.4588 | 0.0859 | 0.0707  | 0.0598 | -0.1020 | -0.0422 | 1.7046  | -0.4906 | 0.1959 |
|                               | 1 | 82 | 3  | 8 | 2.4680 | 2.4692 | 0.0449 | 0.1527  | 0.0417 | -0.0453 | -0.0035 | 1.0849  | -0.0790 | 0.1761 |
|                               | 1 | 82 | 4  | 8 | 2.4636 | 2.4648 | 0.0453 | 0.1538  | 0.0422 | -0.0459 | -0.0037 | 1.0884  | -0.0823 | 0.1807 |
|                               | 1 | 82 | 6  | 8 | 2.1794 | 2.1797 | 0.0891 | 0.3069  | 0.1022 | -0.1277 | -0.0255 | 1.2492  | -0.2858 | 0.4007 |
|                               | 2 | 8  | 7  | 1 | 1.0873 | 1.0876 | 0.2477 | -1.3202 | 0.0605 | -0.4509 | -0.3905 | 7.4597  | -1.5766 | 0.5025 |
|                               | 2 | 8  | 8  | 1 | 0.9735 | 0.9751 | 0.3624 | -2.6493 | 0.0874 | -0.8372 | -0.7498 | 9.5764  | -2.0687 | 0.7152 |
|                               | 2 | 8  | 16 | 1 | 1.0593 | 1.0598 | 0.2710 | -1.6147 | 0.0567 | -0.5170 | -0.4603 | 9.1259  | -1.6989 | 0.5412 |
|                               | 3 | 8  | 9  | 1 | 0.9759 | 0.9770 | 0.3596 | -2.5774 | 0.0926 | -0.8296 | -0.7370 | 8.9576  | -2.0493 | 0.7179 |
|                               | 3 | 8  | 10 | 1 | 0.9751 | 0.9763 | 0.3606 | -2.5783 | 0.0948 | -0.8342 | -0.7394 | 8.7974  | -2.0505 | 0.7206 |
|                               | 4 | 8  | 11 | 1 | 0.9752 | 0.9764 | 0.3604 | -2.5821 | 0.0937 | -0.8329 | -0.7392 | 8.8886  | -2.0511 | 0.7200 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>5</sub> S <sub>7</sub>  | 4 | 8  | 12 | 1 | 0.9758 | 0.9770 | 0.3596 | -2.5779 | 0.0925 | -0.8296 | -0.7370 | 8.9647  | -2.0494 | 0.7179 |
|                                | 5 | 8  | 13 | 1 | 0.9735 | 0.9750 | 0.3629 | -2.6148 | 0.0943 | -0.8423 | -0.7480 | 8.9332  | -2.0612 | 0.7231 |
|                                | 5 | 8  | 14 | 1 | 0.9737 | 0.9752 | 0.3627 | -2.6163 | 0.0936 | -0.8412 | -0.7476 | 8.9905  | -2.0614 | 0.7222 |
|                                | 6 | 8  | 15 | 1 | 0.9741 | 0.9748 | 0.3615 | -2.3999 | 0.1268 | -0.8535 | -0.7267 | 6.7335  | -2.0103 | 0.7467 |
|                                | 5 | 8  | 7  | 1 | 1.3865 | 1.3874 | 0.1044 | 0.0059  | 0.0674 | -0.1334 | -0.0659 | 1.9780  | -0.6318 | 0.2463 |
|                                | 6 | 8  | 16 | 1 | 1.4686 | 1.4689 | 0.0843 | 0.0678  | 0.0578 | -0.0987 | -0.0409 | 1.7070  | -0.4850 | 0.1927 |
|                                | 1 | 82 | 2  | 8 | 2.5738 | 2.5752 | 0.0365 | 0.1189  | 0.0314 | -0.0330 | -0.0016 | 1.0518  | -0.0445 | 0.1531 |
|                                | 1 | 82 | 3  | 8 | 2.5595 | 2.5597 | 0.0372 | 0.1251  | 0.0327 | -0.0342 | -0.0015 | 1.0446  | -0.0393 | 0.1486 |
|                                | 1 | 82 | 4  | 8 | 2.5735 | 2.5750 | 0.0365 | 0.1190  | 0.0314 | -0.0330 | -0.0016 | 1.0519  | -0.0446 | 0.1532 |
|                                | 1 | 82 | 5  | 8 | 2.5595 | 2.5597 | 0.0372 | 0.1251  | 0.0327 | -0.0342 | -0.0015 | 1.0446  | -0.0393 | 0.1486 |
|                                | 1 | 82 | 6  | 8 | 2.4092 | 2.4092 | 0.0503 | 0.1764  | 0.0491 | -0.0541 | -0.0050 | 1.1020  | -0.0995 | 0.1939 |
|                                | 2 | 8  | 7  | 1 | 0.9749 | 0.9759 | 0.3615 | -2.5580 | 0.1003 | -0.8401 | -0.7398 | 8.3771  | -2.0467 | 0.7266 |
|                                | 2 | 8  | 8  | 1 | 0.9749 | 0.9759 | 0.3615 | -2.5580 | 0.1003 | -0.8401 | -0.7398 | 8.3777  | -2.0467 | 0.7266 |
|                                | 3 | 8  | 9  | 1 | 0.9738 | 0.9747 | 0.3623 | -2.5703 | 0.1002 | -0.8429 | -0.7427 | 8.4149  | -2.0503 | 0.7259 |
|                                | 3 | 8  | 10 | 1 | 0.9748 | 0.9757 | 0.3611 | -2.5639 | 0.0984 | -0.8378 | -0.7394 | 8.5145  | -2.0476 | 0.7236 |
| W <sub>5</sub> S <sub>8</sub>  | 4 | 8  | 11 | 1 | 0.9749 | 0.9759 | 0.3615 | -2.5581 | 0.1003 | -0.8401 | -0.7398 | 8.3781  | -2.0467 | 0.7266 |
|                                | 4 | 8  | 12 | 1 | 0.9749 | 0.9759 | 0.3615 | -2.5581 | 0.1003 | -0.8400 | -0.7398 | 8.3787  | -2.0467 | 0.7266 |
|                                | 5 | 8  | 13 | 1 | 0.9738 | 0.9747 | 0.3623 | -2.5703 | 0.1002 | -0.8429 | -0.7427 | 8.4150  | -2.0503 | 0.7259 |
|                                | 5 | 8  | 14 | 1 | 0.9748 | 0.9757 | 0.3611 | -2.5639 | 0.0984 | -0.8378 | -0.7394 | 8.5148  | -2.0476 | 0.7236 |
|                                | 6 | 8  | 15 | 1 | 0.9742 | 0.9753 | 0.3605 | -2.6194 | 0.0878 | -0.8305 | -0.7427 | 9.4575  | -2.0599 | 0.7130 |
|                                | 6 | 8  | 16 | 1 | 0.9742 | 0.9753 | 0.3605 | -2.6194 | 0.0878 | -0.8305 | -0.7427 | 9.4574  | -2.0599 | 0.7130 |
|                                | 1 | 82 | 3  | 8 | 2.3334 | 2.3339 | 0.0612 | 0.2117  | 0.0626 | -0.0723 | -0.0097 | 1.1547  | -0.1581 | 0.2413 |
|                                | 1 | 82 | 4  | 8 | 2.4244 | 2.4245 | 0.0492 | 0.1706  | 0.0474 | -0.0521 | -0.0047 | 1.0999  | -0.0963 | 0.1873 |
|                                | 1 | 82 | 6  | 8 | 2.3335 | 2.3340 | 0.0612 | 0.2116  | 0.0626 | -0.0722 | -0.0097 | 1.1545  | -0.1580 | 0.2411 |
|                                | 2 | 8  | 7  | 1 | 0.9726 | 0.9739 | 0.3645 | -2.5787 | 0.1043 | -0.8532 | -0.7490 | 8.1819  | -2.0547 | 0.7338 |
|                                | 2 | 8  | 8  | 1 | 0.9724 | 0.9738 | 0.3647 | -2.5818 | 0.1042 | -0.8538 | -0.7496 | 8.1950  | -2.0556 | 0.7337 |
|                                | 3 | 8  | 9  | 1 | 0.9741 | 0.9748 | 0.3593 | -2.5961 | 0.0887 | -0.8264 | -0.7377 | 9.3155  | -2.0532 | 0.7077 |
|                                | 3 | 8  | 10 | 1 | 1.0228 | 1.0238 | 0.3055 | -2.0187 | 0.0613 | -0.6273 | -0.5660 | 10.2298 | -1.8530 | 0.6035 |
|                                | 4 | 8  | 11 | 1 | 0.9761 | 0.9769 | 0.3581 | -2.6005 | 0.0850 | -0.8201 | -0.7351 | 9.6486  | -2.0530 | 0.7093 |
|                                | 4 | 8  | 12 | 1 | 0.9750 | 0.9758 | 0.3595 | -2.6065 | 0.0875 | -0.8267 | -0.7392 | 9.4442  | -2.0559 | 0.7117 |
| W <sub>5</sub> S <sub>9</sub>  | 5 | 8  | 13 | 1 | 1.0388 | 1.0392 | 0.2912 | -1.8437 | 0.0599 | -0.5808 | -0.5209 | 9.6889  | -1.7890 | 0.5746 |
|                                | 5 | 8  | 14 | 1 | 0.9744 | 0.9749 | 0.3625 | -2.5286 | 0.1078 | -0.8477 | -0.7399 | 7.8650  | -2.0410 | 0.7274 |
|                                | 6 | 8  | 15 | 1 | 1.0223 | 1.0233 | 0.3059 | -2.0250 | 0.0612 | -0.6286 | -0.5674 | 10.2756 | -1.8551 | 0.6039 |
|                                | 6 | 8  | 16 | 1 | 0.9742 | 0.9749 | 0.3592 | -2.5951 | 0.0887 | -0.8261 | -0.7374 | 9.3158  | -2.0529 | 0.7076 |
|                                | 2 | 8  | 13 | 1 | 1.5233 | 1.5240 | 0.0725 | 0.0974  | 0.0524 | -0.0805 | -0.0281 | 1.5354  | -0.3872 | 0.1618 |
|                                | 5 | 8  | 10 | 1 | 1.6091 | 1.6155 | 0.0600 | 0.1046  | 0.0439 | -0.0616 | -0.0177 | 1.4038  | -0.2951 | 0.1282 |
|                                | 5 | 8  | 15 | 1 | 1.6095 | 1.6160 | 0.0599 | 0.1049  | 0.0438 | -0.0615 | -0.0176 | 1.4018  | -0.2939 | 0.1277 |
|                                | 1 | 82 | 2  | 8 | 2.3960 | 2.3968 | 0.0527 | 0.1814  | 0.0515 | -0.0577 | -0.0062 | 1.1196  | -0.1168 | 0.2086 |
|                                | 1 | 82 | 3  | 8 | 2.4381 | 2.4383 | 0.0474 | 0.1643  | 0.0452 | -0.0493 | -0.0041 | 1.0913  | -0.0871 | 0.1831 |
|                                | 1 | 82 | 5  | 8 | 2.3763 | 2.3768 | 0.0565 | 0.1916  | 0.0558 | -0.0637 | -0.0079 | 1.1418  | -0.1401 | 0.2245 |
|                                | 1 | 82 | 6  | 8 | 2.6601 | 2.6623 | 0.0307 | 0.0985  | 0.0251 | -0.0255 | -0.0005 | 1.0181  | -0.0147 | 0.1195 |
|                                | 2 | 8  | 7  | 1 | 0.9756 | 0.9769 | 0.3595 | -2.6049 | 0.0877 | -0.8267 | -0.7390 | 9.4225  | -2.0555 | 0.7118 |
|                                | 2 | 8  | 8  | 1 | 0.9763 | 0.9778 | 0.3589 | -2.6086 | 0.0856 | -0.8234 | -0.7378 | 9.6162  | -2.0557 | 0.7111 |
|                                | 3 | 8  | 9  | 1 | 0.9747 | 0.9756 | 0.3600 | -2.6004 | 0.0897 | -0.8295 | -0.7398 | 9.2466  | -2.0550 | 0.7149 |
|                                | 3 | 8  | 10 | 1 | 0.9755 | 0.9763 | 0.3590 | -2.5985 | 0.0875 | -0.8246 | -0.7371 | 9.4238  | -2.0535 | 0.7118 |
| W <sub>5</sub> S <sub>10</sub> | 4 | 8  | 11 | 1 | 0.9729 | 0.9743 | 0.3640 | -2.5876 | 0.1016 | -0.8500 | -0.7484 | 8.3701  | -2.0562 | 0.7306 |
|                                | 4 | 8  | 12 | 1 | 0.9732 | 0.9746 | 0.3637 | -2.5830 | 0.1015 | -0.8487 | -0.7472 | 8.3639  | -2.0547 | 0.7302 |
|                                | 5 | 8  | 13 | 1 | 0.9730 | 0.9735 | 0.3626 | -2.5265 | 0.1082 | -0.8480 | -0.7398 | 7.8380  | -2.0406 | 0.7275 |
|                                | 5 | 8  | 14 | 1 | 1.0451 | 1.0455 | 0.2837 | -1.7410 | 0.0615 | -0.5583 | -0.4968 | 9.0758  | -1.7510 | 0.5679 |
|                                | 6 | 8  | 15 | 1 | 0.9746 | 0.9756 | 0.3621 | -2.5424 | 0.1045 | -0.8446 | -0.7401 | 8.0820  | -2.0438 | 0.7310 |
|                                | 6 | 8  | 16 | 1 | 0.9754 | 0.9764 | 0.3612 | -2.5395 | 0.1029 | -0.8406 | -0.7377 | 8.1725  | -2.0422 | 0.7294 |
|                                | 4 | 8  | 14 | 1 | 1.4938 | 1.4946 | 0.0784 | 0.0887  | 0.0560 | -0.0898 | -0.0338 | 1.6038  | -0.4314 | 0.1749 |
|                                | 1 | 82 | 3  | 8 | 2.3521 | 2.3526 | 0.0585 | 0.2022  | 0.0590 | -0.0675 | -0.0085 | 1.1436  | -0.1449 | 0.2259 |
|                                | 1 | 82 | 4  | 8 | 2.3578 | 2.3579 | 0.0575 | 0.2001  | 0.0580 | -0.0659 | -0.0079 | 1.1371  | -0.1382 | 0.2224 |
|                                | 1 | 82 | 5  | 8 | 2.3523 | 2.3529 | 0.0585 | 0.2021  | 0.0590 | -0.0675 | -0.0085 | 1.1434  | -0.1447 | 0.2257 |
|                                | 2 | 8  | 7  | 1 | 0.9762 | 0.9774 | 0.3612 | -2.5492 | 0.1012 | -0.8397 | -0.7385 | 8.2989  | -2.0444 | 0.7284 |
|                                | 2 | 8  | 8  | 1 | 0.9761 | 0.9773 | 0.3613 | -2.5501 | 0.1012 | -0.8398 | -0.7387 | 8.3023  | -2.0447 | 0.7284 |
|                                | 3 | 8  | 9  | 1 | 0.9746 | 0.9755 | 0.3584 | -2.6063 | 0.0849 | -0.8214 | -0.7365 | 9.6728  | -2.0548 | 0.7056 |
|                                | 3 | 8  | 10 | 1 | 1.0021 | 1.0034 | 0.3276 | -2.2931 | 0.0647 | -0.7027 | -0.6380 | 10.8559 | -1.9477 | 0.6426 |
|                                | 4 | 8  | 11 | 1 | 1.0086 | 1.0093 | 0.3199 | -2.1997 | 0.0630 | -0.6758 | -0.6129 | 10.7350 | -1.9160 | 0.6294 |
|                                | 4 | 8  | 12 | 1 | 0.9743 | 0.9748 | 0.3599 | -2.5825 | 0.0923 | -0.8302 | -0.7379 | 8.9940  | -2.0507 | 0.7133 |
|                                | 5 | 8  | 13 | 1 | 1.0019 | 1.0032 | 0.3277 | -2.2952 | 0.0648 | -0.7033 | -0.6386 | 10.8601 | -1.9484 | 0.6429 |
|                                | 5 | 8  | 14 | 1 | 0.9745 | 0.9754 | 0.3585 | -2.6080 | 0.0849 | -0.8218 | -0.7369 | 8.6803  | -2.0553 | 0.7056 |
|                                | 6 | 8  | 15 | 1 | 0.9752 | 0.9764 | 0.3605 | -2.5886 | 0.0928 | -0.8327 | -0.7399 | 8.9759  | -2.0527 | 0.7170 |
|                                | 6 | 8  | 16 | 1 | 0.9861 | 0.9877 | 0.3487 | -2.4625 | 0.0857 | -0.7870 | -0.7013 | 9.1836  | -2.0110 | 0.6943 |
|                                | 2 | 8  | 11 | 1 | 1.6983 | 1.6993 | 0.0474 | 0.0985  | 0.0342 | -0.0438 | -0.0096 | 1.2807  | -0.2028 | 0.0957 |
|                                | 2 | 8  | 16 | 1 | 1.9621 | 1.9783 | 0.0250 | 0.0751  | 0.0187 | -0.0186 | 0.0001  | 0.9940  | 0.0045  | 0.0340 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>5</sub> S <sub>11</sub> | 6 | 8  | 10 | 1 | 1.7263 | 1.7361 | 0.0443 | 0.1052  | 0.0334 | -0.0406 | -0.0071 | 1.2135  | -0.1613 | 0.0816 |
|                                | 6 | 8  | 13 | 1 | 1.7275 | 1.7374 | 0.0441 | 0.1051  | 0.0333 | -0.0404 | -0.0071 | 1.2118  | -0.1600 | 0.0812 |
|                                | 1 | 82 | 2  | 8 | 2.6630 | 2.6644 | 0.0306 | 0.0982  | 0.0249 | -0.0253 | -0.0004 | 1.0155  | -0.0127 | 0.1246 |
|                                | 1 | 82 | 3  | 8 | 2.4496 | 2.4501 | 0.0465 | 0.1597  | 0.0439 | -0.0478 | -0.0039 | 1.0898  | -0.0848 | 0.1855 |
|                                | 1 | 82 | 4  | 8 | 2.5340 | 2.5352 | 0.0395 | 0.1306  | 0.0349 | -0.0372 | -0.0023 | 1.0646  | -0.0571 | 0.1630 |
|                                | 1 | 82 | 5  | 8 | 2.4744 | 2.4753 | 0.0444 | 0.1500  | 0.0410 | -0.0445 | -0.0035 | 1.0854  | -0.0788 | 0.1790 |
|                                | 1 | 82 | 6  | 8 | 2.6087 | 2.6092 | 0.0335 | 0.1114  | 0.0286 | -0.0293 | -0.0007 | 1.0250  | -0.0213 | 0.1345 |
|                                | 2 | 8  | 7  | 1 | 0.9746 | 0.9756 | 0.3622 | -2.5404 | 0.1050 | -0.8450 | -0.7401 | 8.0499  | -2.0434 | 0.7315 |
|                                | 2 | 8  | 8  | 1 | 0.9750 | 0.9760 | 0.3617 | -2.5396 | 0.1040 | -0.8428 | -0.7389 | 8.1064  | -2.0427 | 0.7306 |
|                                | 3 | 8  | 9  | 1 | 0.9748 | 0.9758 | 0.3603 | -2.5892 | 0.0923 | -0.8318 | -0.7396 | 9.0160  | -2.0527 | 0.7163 |
|                                | 3 | 8  | 10 | 1 | 0.9746 | 0.9758 | 0.3607 | -2.6038 | 0.0909 | -0.8328 | -0.7418 | 9.1607  | -2.0565 | 0.7172 |
|                                | 4 | 8  | 11 | 1 | 0.9750 | 0.9761 | 0.3609 | -2.5595 | 0.0987 | -0.8372 | -0.7386 | 8.4845  | -2.0464 | 0.7235 |
|                                | 4 | 8  | 12 | 1 | 0.9747 | 0.9759 | 0.3616 | -2.5739 | 0.0979 | -0.8392 | -0.7414 | 8.5739  | -2.0504 | 0.7248 |
|                                | 5 | 8  | 13 | 1 | 0.9753 | 0.9766 | 0.3604 | -2.5892 | 0.0924 | -0.8321 | -0.7397 | 9.0047  | -2.0527 | 0.7188 |
|                                | 5 | 8  | 14 | 1 | 0.9747 | 0.9759 | 0.3609 | -2.5888 | 0.0938 | -0.8349 | -0.7410 | 8.8973  | -2.0532 | 0.7188 |
| W <sub>5</sub> S <sub>12</sub> | 6 | 8  | 15 | 1 | 0.9739 | 0.9749 | 0.3625 | -2.5579 | 0.1029 | -0.8452 | -0.7423 | 8.2167  | -2.0478 | 0.7290 |
|                                | 6 | 8  | 16 | 1 | 0.9747 | 0.9756 | 0.3616 | -2.5567 | 0.1008 | -0.8408 | -0.7400 | 8.3389  | -2.0465 | 0.7267 |
|                                | 1 | 82 | 2  | 8 | 2.2334 | 2.2334 | 0.0774 | 0.2740  | 0.0860 | -0.1036 | -0.0175 | 1.2038  | -0.2266 | 0.3121 |
|                                | 1 | 82 | 4  | 8 | 2.2693 | 2.2697 | 0.0705 | 0.2519  | 0.0765 | -0.0901 | -0.0136 | 1.1771  | -0.1923 | 0.2710 |
|                                | 2 | 8  | 7  | 1 | 1.0666 | 1.0667 | 0.2625 | -1.4917 | 0.0604 | -0.4938 | -0.4334 | 8.1720  | -1.6507 | 0.5293 |
|                                | 2 | 8  | 8  | 1 | 0.9995 | 1.0000 | 0.3302 | -2.2954 | 0.0703 | -0.7145 | -0.6442 | 10.1582 | -1.9510 | 0.6475 |
|                                | 3 | 8  | 9  | 1 | 0.9722 | 0.9735 | 0.3648 | -2.5882 | 0.1034 | -0.8539 | -0.7505 | 8.2573  | -2.0571 | 0.7329 |
|                                | 3 | 8  | 10 | 1 | 0.9723 | 0.9736 | 0.3648 | -2.5820 | 0.1044 | -0.8543 | -0.7499 | 8.1812  | -2.0557 | 0.7340 |
|                                | 4 | 8  | 11 | 1 | 0.9746 | 0.9748 | 0.3581 | -2.5967 | 0.0857 | -0.8206 | -0.7349 | 9.5755  | -2.0522 | 0.7020 |
|                                | 4 | 8  | 12 | 1 | 1.0587 | 1.0591 | 0.2711 | -1.5720 | 0.0641 | -0.5211 | -0.4571 | 8.1356  | -1.6859 | 0.5467 |
|                                | 5 | 8  | 13 | 1 | 1.0397 | 1.0402 | 0.2904 | -1.8359 | 0.0596 | -0.5782 | -0.5186 | 9.7003  | -1.7859 | 0.5734 |
|                                | 5 | 8  | 14 | 1 | 0.9746 | 0.9751 | 0.3625 | -2.5282 | 0.1077 | -0.8475 | -0.7398 | 7.8665  | -2.0409 | 0.7277 |
|                                | 6 | 8  | 15 | 1 | 0.9732 | 0.9746 | 0.3631 | -2.6094 | 0.0956 | -0.8436 | -0.7480 | 8.8224  | -2.0602 | 0.7239 |
|                                | 6 | 8  | 16 | 1 | 0.9735 | 0.9749 | 0.3628 | -2.6071 | 0.0953 | -0.8425 | -0.7471 | 8.8364  | -2.0594 | 0.7235 |
|                                | 3 | 8  | 13 | 1 | 1.5193 | 1.5200 | 0.0731 | 0.0974  | 0.0529 | -0.0814 | -0.0285 | 1.5397  | -0.3907 | 0.1628 |
| W <sub>6</sub> S <sub>1</sub>  | 5 | 8  | 12 | 1 | 1.4701 | 1.4724 | 0.0860 | 0.0683  | 0.0595 | -0.1019 | -0.0424 | 1.7131  | -0.4933 | 0.1990 |
|                                | 5 | 8  | 8  | 1 | 1.7879 | 1.7978 | 0.0384 | 0.0960  | 0.0286 | -0.0331 | -0.0046 | 1.1598  | -0.1187 | 0.0698 |
|                                | 6 | 8  | 7  | 1 | 1.4286 | 1.4300 | 0.0928 | 0.0518  | 0.0632 | -0.1135 | -0.0503 | 1.7950  | -0.5419 | 0.2132 |
|                                | 1 | 82 | 2  | 8 | 2.3717 | 2.3718 | 0.0554 | 0.1938  | 0.0554 | -0.0624 | -0.0070 | 1.1261  | -0.1262 | 0.2202 |
|                                | 1 | 82 | 3  | 8 | 2.5109 | 2.5124 | 0.0419 | 0.1383  | 0.0375 | -0.0405 | -0.0030 | 1.0789  | -0.0708 | 0.1697 |
|                                | 1 | 82 | 6  | 8 | 2.5120 | 2.5135 | 0.0418 | 0.1379  | 0.0374 | -0.0403 | -0.0029 | 1.0785  | -0.0703 | 0.1695 |
|                                | 1 | 82 | 7  | 8 | 2.3711 | 2.3712 | 0.0555 | 0.1941  | 0.0555 | -0.0625 | -0.0070 | 1.1263  | -0.1264 | 0.2202 |
|                                | 2 | 8  | 8  | 1 | 0.9723 | 0.9731 | 0.3622 | -2.6045 | 0.0943 | -0.8397 | -0.7454 | 8.9047  | -2.0582 | 0.7164 |
|                                | 2 | 8  | 9  | 1 | 1.0002 | 1.0014 | 0.3293 | -2.3110 | 0.0658 | -0.7093 | -0.6435 | 10.7845 | -1.9540 | 0.6449 |
|                                | 3 | 8  | 10 | 1 | 0.9736 | 0.9747 | 0.3623 | -2.5570 | 0.1024 | -0.8440 | -0.7416 | 8.2428  | -2.0473 | 0.7264 |
|                                | 3 | 8  | 11 | 1 | 0.9901 | 0.9914 | 0.3430 | -2.4067 | 0.0814 | -0.7645 | -0.6831 | 9.3914  | -1.9916 | 0.6817 |
|                                | 4 | 8  | 12 | 1 | 0.9746 | 0.9757 | 0.3625 | -2.5696 | 0.1009 | -0.8443 | -0.7433 | 8.3651  | -2.0505 | 0.7281 |
|                                | 4 | 8  | 13 | 1 | 0.9750 | 0.9762 | 0.3620 | -2.5682 | 0.0999 | -0.8419 | -0.7420 | 8.4261  | -2.0496 | 0.7269 |
|                                | 5 | 8  | 14 | 1 | 0.9749 | 0.9760 | 0.3623 | -2.5661 | 0.1009 | -0.8433 | -0.7424 | 8.3598  | -2.0494 | 0.7280 |
|                                | 5 | 8  | 15 | 1 | 0.9750 | 0.9761 | 0.3621 | -2.5694 | 0.0999 | -0.8422 | -0.7423 | 8.4273  | -2.0500 | 0.7270 |
| W <sub>6</sub> S <sub>2</sub>  | 6 | 8  | 16 | 1 | 0.9736 | 0.9747 | 0.3622 | -2.5558 | 0.1024 | -0.8437 | -0.7413 | 8.2401  | -2.0469 | 0.7264 |
|                                | 6 | 8  | 17 | 1 | 0.9902 | 0.9915 | 0.3429 | -2.4052 | 0.0814 | -0.7642 | -0.6827 | 9.3826  | -1.9911 | 0.6818 |
|                                | 7 | 8  | 18 | 1 | 1.0003 | 1.0014 | 0.3293 | -2.3105 | 0.0658 | -0.7093 | -0.6434 | 10.7760 | -1.9539 | 0.6449 |
|                                | 7 | 8  | 19 | 1 | 0.9723 | 0.9731 | 0.3622 | -2.6046 | 0.0942 | -0.8396 | -0.7454 | 8.9089  | -2.0582 | 0.7163 |
|                                | 4 | 8  | 9  | 1 | 1.7197 | 1.7252 | 0.0444 | 0.1047  | 0.0334 | -0.0407 | -0.0073 | 1.2170  | -0.1634 | 0.0810 |
|                                | 4 | 8  | 17 | 1 | 1.8501 | 1.8609 | 0.0323 | 0.0898  | 0.0244 | -0.0263 | -0.0019 | 1.0788  | -0.0594 | 0.0493 |
|                                | 5 | 8  | 11 | 1 | 1.8488 | 1.8596 | 0.0324 | 0.0901  | 0.0245 | -0.0264 | -0.0019 | 1.0796  | -0.0601 | 0.0495 |
|                                | 5 | 8  | 18 | 1 | 1.7205 | 1.7260 | 0.0443 | 0.1046  | 0.0334 | -0.0406 | -0.0072 | 1.2163  | -0.1629 | 0.0808 |
|                                | 1 | 82 | 2  | 8 | 2.3094 | 2.3094 | 0.0644 | 0.2261  | 0.0674 | -0.0783 | -0.0109 | 1.1617  | -0.1691 | 0.2587 |
|                                | 1 | 82 | 4  | 8 | 2.3859 | 2.3866 | 0.0541 | 0.1864  | 0.0533 | -0.0599 | -0.0067 | 1.1253  | -0.1234 | 0.2153 |
|                                | 1 | 82 | 5  | 8 | 2.3078 | 2.3081 | 0.0656 | 0.2236  | 0.0679 | -0.0799 | -0.0120 | 1.1771  | -0.1833 | 0.2718 |
|                                | 2 | 8  | 8  | 1 | 1.0479 | 1.0482 | 0.2799 | -1.7087 | 0.0591 | -0.5454 | -0.4863 | 9.2282  | -1.7373 | 0.5588 |
|                                | 2 | 8  | 9  | 1 | 0.9724 | 0.9727 | 0.3627 | -2.5544 | 0.1040 | -0.8465 | -0.7426 | 8.1423  | -2.0472 | 0.7232 |
|                                | 3 | 8  | 10 | 1 | 0.9722 | 0.9735 | 0.3648 | -2.5890 | 0.1032 | -0.8537 | -0.7505 | 8.2712  | -2.0573 | 0.7326 |
|                                | 3 | 8  | 11 | 1 | 0.9723 | 0.9736 | 0.3648 | -2.5886 | 0.1032 | -0.8536 | -0.7504 | 8.2707  | -2.0572 | 0.7324 |
|                                | 4 | 8  | 12 | 1 | 0.9734 | 0.9743 | 0.3610 | -2.5885 | 0.0941 | -0.8354 | -0.7413 | 8.8757  | -2.0533 | 0.7159 |
|                                | 4 | 8  | 13 | 1 | 1.0009 | 1.0022 | 0.3292 | -2.2968 | 0.0677 | -0.7097 | -0.6419 | 10.4754 | -1.9503 | 0.6465 |
|                                | 5 | 8  | 14 | 1 | 1.0367 | 1.0373 | 0.2906 | -1.8445 | 0.0587 | -0.5784 | -0.5198 | 9.8620  | -1.7886 | 0.5752 |
|                                | 5 | 8  | 15 | 1 | 0.9885 | 0.9893 | 0.3435 | -2.4054 | 0.0829 | -0.7671 | -0.6842 | 9.2538  | -1.9918 | 0.6779 |
|                                | 6 | 8  | 16 | 1 | 0.9751 | 0.9762 | 0.3621 | -2.5616 | 0.1012 | -0.8427 | -0.7416 | 8.3306  | -2.0482 | 0.7282 |
|                                | 6 | 8  | 17 | 1 | 0.9750 | 0.9761 | 0.3621 | -2.5637 | 0.1009 | -0.8426 | -0.7418 | 8.3551  | -2.0486 | 0.7280 |

|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|-------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>6</sub> S <sub>3</sub> | 7 | 8  | 18 | 1 | 0.9725 | 0.9739 | 0.3644 | -2.5944 | 0.1013 | -0.8511 | -0.7499 | 8.4049  | -2.0581 | 0.7306 |
|                               | 7 | 8  | 19 | 1 | 0.9726 | 0.9740 | 0.3643 | -2.5947 | 0.1011 | -0.8508 | -0.7497 | 8.4174  | -2.0581 | 0.7303 |
|                               | 6 | 8  | 15 | 1 | 1.8725 | 1.8814 | 0.0306 | 0.0865  | 0.0230 | -0.0244 | -0.0014 | 1.0593  | -0.0446 | 0.0463 |
|                               | 6 | 8  | 13 | 1 | 1.7204 | 1.7264 | 0.0445 | 0.1050  | 0.0336 | -0.0409 | -0.0073 | 1.2178  | -0.1642 | 0.0815 |
|                               | 3 | 8  | 14 | 1 | 1.5141 | 1.5154 | 0.0738 | 0.0977  | 0.0535 | -0.0827 | -0.0291 | 1.5439  | -0.3947 | 0.1614 |
|                               | 7 | 8  | 8  | 1 | 1.4791 | 1.4799 | 0.0812 | 0.0827  | 0.0575 | -0.0943 | -0.0368 | 1.6403  | -0.4535 | 0.1820 |
|                               | 1 | 82 | 2  | 8 | 2.4990 | 2.5004 | 0.0430 | 0.1424  | 0.0389 | -0.0421 | -0.0033 | 1.0842  | -0.0761 | 0.1754 |
|                               | 1 | 82 | 3  | 8 | 2.4290 | 2.4299 | 0.0486 | 0.1678  | 0.0465 | -0.0511 | -0.0046 | 1.0988  | -0.0947 | 0.1961 |
|                               | 1 | 82 | 4  | 8 | 2.4997 | 2.5011 | 0.0429 | 0.1421  | 0.0388 | -0.0420 | -0.0033 | 1.0839  | -0.0758 | 0.1751 |
|                               | 1 | 82 | 7  | 8 | 2.3329 | 2.3330 | 0.0612 | 0.2121  | 0.0627 | -0.0723 | -0.0096 | 1.1535  | -0.1571 | 0.2487 |
| W <sub>6</sub> S <sub>4</sub> | 2 | 8  | 8  | 1 | 0.9918 | 0.9932 | 0.3408 | -2.3893 | 0.0793 | -0.7559 | -0.6766 | 9.5323  | -1.9852 | 0.6757 |
|                               | 2 | 8  | 9  | 1 | 0.9733 | 0.9744 | 0.3625 | -2.5612 | 0.1023 | -0.8449 | -0.7426 | 8.2581  | -2.0485 | 0.7263 |
|                               | 3 | 8  | 10 | 1 | 0.9742 | 0.9754 | 0.3613 | -2.6018 | 0.0926 | -0.8356 | -0.7430 | 9.0246  | -2.0566 | 0.7185 |
|                               | 3 | 8  | 11 | 1 | 0.9744 | 0.9756 | 0.3611 | -2.5987 | 0.0926 | -0.8349 | -0.7423 | 9.0128  | -2.0557 | 0.7185 |
|                               | 4 | 8  | 12 | 1 | 0.9920 | 0.9934 | 0.3407 | -2.3864 | 0.0794 | -0.7555 | -0.6760 | 9.5110  | -1.9843 | 0.6757 |
|                               | 4 | 8  | 13 | 1 | 0.9735 | 0.9746 | 0.3623 | -2.5577 | 0.1024 | -0.8442 | -0.7418 | 8.2465  | -2.0475 | 0.7262 |
|                               | 5 | 8  | 14 | 1 | 0.9753 | 0.9764 | 0.3618 | -2.5579 | 0.1012 | -0.8420 | -0.7407 | 8.3170  | -2.0471 | 0.7282 |
|                               | 5 | 8  | 15 | 1 | 0.9750 | 0.9761 | 0.3622 | -2.5597 | 0.1017 | -0.8433 | -0.7416 | 8.2920  | -2.0478 | 0.7288 |
|                               | 6 | 8  | 16 | 1 | 0.9753 | 0.9765 | 0.3618 | -2.5575 | 0.1012 | -0.8419 | -0.7406 | 8.3151  | -2.0469 | 0.7283 |
|                               | 6 | 8  | 17 | 1 | 0.9747 | 0.9758 | 0.3624 | -2.5643 | 0.1016 | -0.8443 | -0.7427 | 8.3091  | -2.0492 | 0.7288 |
| W <sub>6</sub> S <sub>5</sub> | 7 | 8  | 18 | 1 | 0.9955 | 0.9966 | 0.3344 | -2.3556 | 0.0700 | -0.7288 | -0.6589 | 10.4159 | -1.9703 | 0.6542 |
|                               | 7 | 8  | 19 | 1 | 0.9951 | 0.9962 | 0.3348 | -2.3623 | 0.0698 | -0.7302 | -0.6604 | 10.4597 | -1.9724 | 0.6544 |
|                               | 5 | 8  | 8  | 1 | 1.8158 | 1.8253 | 0.0352 | 0.0946  | 0.0266 | -0.0296 | -0.0030 | 1.1111  | -0.0840 | 0.0560 |
|                               | 5 | 8  | 18 | 1 | 1.7653 | 1.7719 | 0.0396 | 0.0998  | 0.0298 | -0.0347 | -0.0049 | 1.1633  | -0.1231 | 0.0686 |
|                               | 6 | 8  | 12 | 1 | 1.8161 | 1.8255 | 0.0352 | 0.0945  | 0.0266 | -0.0296 | -0.0030 | 1.1115  | -0.0843 | 0.0561 |
|                               | 6 | 8  | 19 | 1 | 1.7650 | 1.7715 | 0.0396 | 0.1000  | 0.0299 | -0.0347 | -0.0049 | 1.1626  | -0.1227 | 0.0684 |
|                               | 1 | 82 | 2  | 8 | 2.3154 | 2.3155 | 0.0638 | 0.2216  | 0.0662 | -0.0770 | -0.0108 | 1.1630  | -0.1690 | 0.2592 |
|                               | 1 | 82 | 6  | 8 | 2.3284 | 2.3288 | 0.0623 | 0.2132  | 0.0637 | -0.0740 | -0.0104 | 1.1629  | -0.1664 | 0.2559 |
|                               | 1 | 82 | 7  | 8 | 2.3484 | 2.3489 | 0.0594 | 0.2030  | 0.0598 | -0.0689 | -0.0091 | 1.1518  | -0.1528 | 0.2450 |
|                               | 2 | 8  | 8  | 1 | 0.9726 | 0.9731 | 0.3624 | -2.5566 | 0.1028 | -0.8448 | -0.7420 | 8.2160  | -2.0474 | 0.7225 |
| W <sub>6</sub> S <sub>6</sub> | 2 | 8  | 9  | 1 | 1.0445 | 1.0450 | 0.2833 | -1.7513 | 0.0589 | -0.5557 | -0.4968 | 9.4281  | -1.7536 | 0.5648 |
|                               | 3 | 8  | 10 | 1 | 0.9728 | 0.9742 | 0.3642 | -2.5860 | 0.1022 | -0.8509 | -0.7487 | 8.3256  | -2.0559 | 0.7313 |
|                               | 3 | 8  | 11 | 1 | 0.9724 | 0.9738 | 0.3645 | -2.5944 | 0.1015 | -0.8517 | -0.7501 | 8.3879  | -2.0582 | 0.7309 |
|                               | 4 | 8  | 12 | 1 | 0.9731 | 0.9745 | 0.3642 | -2.5729 | 0.1044 | -0.8521 | -0.7477 | 8.1590  | -2.0530 | 0.7339 |
|                               | 4 | 8  | 13 | 1 | 0.9733 | 0.9748 | 0.3640 | -2.5720 | 0.1042 | -0.8514 | -0.7472 | 8.1716  | -2.0526 | 0.7337 |
|                               | 5 | 8  | 14 | 1 | 0.9725 | 0.9739 | 0.3644 | -2.5923 | 0.1017 | -0.8515 | -0.7498 | 8.3722  | -2.0576 | 0.7310 |
|                               | 5 | 8  | 15 | 1 | 0.9725 | 0.9739 | 0.3644 | -2.5909 | 0.1020 | -0.8517 | -0.7497 | 8.3512  | -2.0573 | 0.7311 |
|                               | 6 | 8  | 16 | 1 | 0.9732 | 0.9739 | 0.3623 | -2.5395 | 0.1055 | -0.8459 | -0.7404 | 8.0186  | -2.0433 | 0.7259 |
|                               | 6 | 8  | 17 | 1 | 1.0455 | 1.0460 | 0.2829 | -1.7410 | 0.0599 | -0.5551 | -0.4952 | 9.2649  | -1.7502 | 0.5650 |
|                               | 7 | 8  | 18 | 1 | 0.9739 | 0.9744 | 0.3618 | -2.5283 | 0.1060 | -0.8440 | -0.7380 | 7.9653  | -2.0402 | 0.7262 |
| W <sub>6</sub> S <sub>3</sub> | 7 | 8  | 19 | 1 | 1.0414 | 1.0418 | 0.2868 | -1.7853 | 0.0606 | -0.5675 | -0.5069 | 9.3702  | -1.7674 | 0.5714 |
|                               | 3 | 8  | 17 | 1 | 1.4898 | 1.4906 | 0.0790 | 0.0871  | 0.0563 | -0.0909 | -0.0345 | 1.6134  | -0.4370 | 0.1765 |
|                               | 4 | 8  | 19 | 1 | 1.5115 | 1.5127 | 0.0752 | 0.0907  | 0.0536 | -0.0845 | -0.0309 | 1.5766  | -0.4109 | 0.1682 |
|                               | 5 | 8  | 9  | 1 | 1.4890 | 1.4899 | 0.0791 | 0.0876  | 0.0564 | -0.0910 | -0.0345 | 1.6119  | -0.4367 | 0.1761 |
|                               | 1 | 82 | 2  | 8 | 2.5656 | 2.5681 | 0.0375 | 0.1098  | 0.0303 | -0.0332 | -0.0029 | 1.0954  | -0.0772 | 0.1536 |
|                               | 1 | 82 | 3  | 8 | 2.4303 | 2.4315 | 0.0477 | 0.1597  | 0.0446 | -0.0493 | -0.0047 | 1.1053  | -0.0986 | 0.1958 |
|                               | 1 | 82 | 6  | 8 | 2.3787 | 2.3791 | 0.0536 | 0.1850  | 0.0527 | -0.0592 | -0.0065 | 1.1227  | -0.1207 | 0.2211 |
|                               | 1 | 82 | 7  | 8 | 2.3944 | 2.3946 | 0.0527 | 0.1765  | 0.0507 | -0.0573 | -0.0066 | 1.1298  | -0.1248 | 0.2156 |
|                               | 2 | 8  | 8  | 1 | 0.9737 | 0.9748 | 0.3621 | -2.5631 | 0.1011 | -0.8429 | -0.7419 | 8.3390  | -2.0486 | 0.7300 |
|                               | 2 | 8  | 9  | 1 | 0.9894 | 0.9906 | 0.3442 | -2.4153 | 0.0829 | -0.7696 | -0.6867 | 9.2871  | -1.9950 | 0.6856 |
| W <sub>6</sub> S <sub>4</sub> | 3 | 8  | 10 | 1 | 0.9744 | 0.9755 | 0.3604 | -2.6123 | 0.0888 | -0.8306 | -0.7419 | 9.3557  | -2.0582 | 0.7174 |
|                               | 3 | 8  | 11 | 1 | 0.9747 | 0.9760 | 0.3608 | -2.6198 | 0.0884 | -0.8318 | -0.7434 | 9.4084  | -2.0603 | 0.7186 |
|                               | 4 | 8  | 12 | 1 | 0.9723 | 0.9737 | 0.3649 | -2.5870 | 0.1039 | -0.8546 | -0.7507 | 8.2219  | -2.0570 | 0.7340 |
|                               | 4 | 8  | 13 | 1 | 0.9720 | 0.9734 | 0.3652 | -2.5914 | 0.1039 | -0.8556 | -0.7517 | 8.2363  | -2.0583 | 0.7340 |
|                               | 5 | 8  | 14 | 1 | 0.9749 | 0.9759 | 0.3622 | -2.5784 | 0.0986 | -0.8418 | -0.7432 | 8.5365  | -2.0521 | 0.7270 |
|                               | 5 | 8  | 15 | 1 | 0.9750 | 0.9761 | 0.3621 | -2.5727 | 0.0994 | -0.8420 | -0.7426 | 8.4712  | -2.0507 | 0.7269 |
|                               | 6 | 8  | 16 | 1 | 1.0020 | 1.0031 | 0.3274 | -2.3003 | 0.0631 | -0.7012 | -0.6381 | 11.1175 | -1.9494 | 0.6431 |
|                               | 6 | 8  | 17 | 1 | 0.9726 | 0.9733 | 0.3620 | -2.6078 | 0.0934 | -0.8387 | -0.7453 | 8.9822  | -2.0587 | 0.7193 |
|                               | 7 | 8  | 18 | 1 | 0.9720 | 0.9723 | 0.3637 | -2.5422 | 0.1085 | -0.8525 | -0.7440 | 7.8603  | -2.0455 | 0.7289 |
|                               | 7 | 8  | 19 | 1 | 1.0343 | 1.0348 | 0.2928 | -1.8841 | 0.0567 | -0.5844 | -0.5277 | 10.3135 | -1.8023 | 0.5833 |
| W <sub>6</sub> S <sub>5</sub> | 4 | 8  | 19 | 1 | 1.5238 | 1.5247 | 0.0723 | 0.0976  | 0.0523 | -0.0802 | -0.0279 | 1.5334  | -0.3857 | 0.1563 |
|                               | 5 | 8  | 9  | 1 | 1.8542 | 1.8653 | 0.0321 | 0.0897  | 0.0242 | -0.0260 | -0.0018 | 1.0750  | -0.0567 | 0.0479 |
|                               | 5 | 8  | 16 | 1 | 1.7086 | 1.7131 | 0.0457 | 0.1043  | 0.0342 | -0.0423 | -0.0081 | 1.2370  | -0.1771 | 0.0844 |
|                               | 1 | 82 | 2  | 8 | 2.3443 | 2.3448 | 0.0602 | 0.2047  | 0.0607 | -0.0701 | -0.0095 | 1.1561  | -0.1574 | 0.2490 |
|                               | 1 | 82 | 3  | 8 | 2.2093 | 2.2095 | 0.0830 | 0.2846  | 0.0928 | -0.1144 | -0.0216 | 1.2332  | -0.2606 | 0.3675 |
|                               | 1 | 82 | 7  | 8 | 2.4752 | 2.4763 | 0.0440 | 0.1500  | 0.0408 | -0.0440 | -0.0033 | 1.0798  | -0.0739 | 0.1751 |
|                               | 2 | 8  | 8  | 1 | 0.9731 | 0.9738 | 0.3626 | -2.5363 | 0.1067 | -0.8475 | -0.7408 | 7.9409  | -2.0429 | 0.7276 |
|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |

|                               |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|-------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>6</sub> S <sub>7</sub> | 2 | 8  | 9  | 1 | 1.0402 | 1.0409 | 0.2882 | -1.8051 | 0.0602 | -0.5716 | -0.5115 | 9.4997  | -1.7747 | 0.5744 |
|                               | 3 | 8  | 11 | 1 | 0.9736 | 0.9741 | 0.3621 | -2.4209 | 0.1248 | -0.8547 | -0.7300 | 6.8511  | -2.0158 | 0.7430 |
|                               | 4 | 8  | 10 | 1 | 1.1127 | 1.1130 | 0.2295 | -1.0593 | 0.0705 | -0.4057 | -0.3353 | 5.7587  | -1.4609 | 0.4785 |
|                               | 4 | 8  | 12 | 1 | 1.0583 | 1.0590 | 0.2719 | -1.6319 | 0.0557 | -0.5193 | -0.4636 | 9.3295  | -1.7052 | 0.5385 |
|                               | 4 | 8  | 13 | 1 | 0.9728 | 0.9743 | 0.3636 | -2.6266 | 0.0940 | -0.8446 | -0.7506 | 8.9872  | -2.0647 | 0.7208 |
|                               | 5 | 8  | 14 | 1 | 0.9722 | 0.9736 | 0.3649 | -2.5902 | 0.1033 | -0.8541 | -0.7508 | 8.2706  | -2.0577 | 0.7327 |
|                               | 5 | 8  | 15 | 1 | 0.9722 | 0.9735 | 0.3649 | -2.5898 | 0.1034 | -0.8542 | -0.7508 | 8.2643  | -2.0576 | 0.7329 |
|                               | 6 | 8  | 16 | 1 | 0.9729 | 0.9744 | 0.3640 | -2.5975 | 0.0999 | -0.8492 | -0.7493 | 8.5006  | -2.0584 | 0.7292 |
|                               | 6 | 8  | 17 | 1 | 0.9725 | 0.9740 | 0.3643 | -2.5981 | 0.1006 | -0.8508 | -0.7502 | 8.4542  | -2.0589 | 0.7301 |
|                               | 7 | 8  | 18 | 1 | 0.9745 | 0.9757 | 0.3615 | -2.5793 | 0.0970 | -0.8387 | -0.7418 | 8.6508  | -2.0517 | 0.7237 |
|                               | 7 | 8  | 19 | 1 | 0.9753 | 0.9765 | 0.3605 | -2.5760 | 0.0949 | -0.8338 | -0.7389 | 8.7867  | -2.0498 | 0.7206 |
|                               | 3 | 8  | 10 | 1 | 1.3468 | 1.3471 | 0.1172 | -0.0476 | 0.0727 | -0.1573 | -0.0846 | 2.1635  | -0.7216 | 0.2751 |
|                               | 5 | 8  | 9  | 1 | 1.5064 | 1.5074 | 0.0756 | 0.0942  | 0.0545 | -0.0855 | -0.0310 | 1.5681  | -0.4096 | 0.1666 |
|                               | 6 | 8  | 12 | 1 | 1.4514 | 1.4525 | 0.0875 | 0.0651  | 0.0604 | -0.1045 | -0.0441 | 1.7305  | -0.5041 | 0.2028 |
|                               | 1 | 82 | 2  | 8 | 2.4287 | 2.4297 | 0.0487 | 0.1676  | 0.0466 | -0.0513 | -0.0047 | 1.1005  | -0.0962 | 0.1963 |
|                               | 1 | 82 | 3  | 8 | 2.3854 | 2.3861 | 0.0556 | 0.1856  | 0.0542 | -0.0620 | -0.0078 | 1.1441  | -0.1404 | 0.2314 |
|                               | 1 | 82 | 5  | 8 | 2.5888 | 2.5895 | 0.0346 | 0.1169  | 0.0300 | -0.0309 | -0.0008 | 1.0270  | -0.0235 | 0.1323 |
|                               | 1 | 82 | 6  | 8 | 2.3685 | 2.3690 | 0.0562 | 0.1943  | 0.0561 | -0.0636 | -0.0075 | 1.1337  | -0.1334 | 0.2286 |
|                               | 2 | 8  | 8  | 1 | 0.9743 | 0.9757 | 0.3616 | -2.6019 | 0.0932 | -0.8369 | -0.7437 | 8.9776  | -2.0569 | 0.7204 |
|                               | 2 | 8  | 9  | 1 | 0.9748 | 0.9760 | 0.3607 | -2.5910 | 0.0928 | -0.8334 | -0.7406 | 8.9782  | -2.0535 | 0.7179 |
|                               | 3 | 8  | 10 | 1 | 1.0265 | 1.0273 | 0.3016 | -1.9676 | 0.0614 | -0.6147 | -0.5533 | 10.0076 | -1.8349 | 0.5960 |
|                               | 3 | 8  | 11 | 1 | 0.9849 | 0.9858 | 0.3484 | -2.4324 | 0.0899 | -0.7879 | -0.6980 | 8.7656  | -2.0034 | 0.6917 |
|                               | 4 | 8  | 12 | 1 | 0.9717 | 0.9730 | 0.3655 | -2.5817 | 0.1061 | -0.8577 | -0.7516 | 8.0809  | -2.0564 | 0.7358 |
|                               | 4 | 8  | 13 | 1 | 0.9721 | 0.9734 | 0.3652 | -2.5788 | 0.1059 | -0.8564 | -0.7506 | 8.0900  | -2.0554 | 0.7353 |
|                               | 5 | 8  | 14 | 1 | 0.9735 | 0.9745 | 0.3629 | -2.5608 | 0.1034 | -0.8471 | -0.7436 | 8.1886  | -2.0489 | 0.7297 |
|                               | 5 | 8  | 15 | 1 | 0.9742 | 0.9752 | 0.3620 | -2.5648 | 0.1006 | -0.8424 | -0.7418 | 8.3749  | -2.0489 | 0.7271 |
|                               | 6 | 8  | 16 | 1 | 1.0049 | 1.0062 | 0.3248 | -2.2507 | 0.0655 | -0.6937 | -0.6282 | 10.5877 | -1.9341 | 0.6376 |
|                               | 6 | 8  | 17 | 1 | 0.9729 | 0.9738 | 0.3620 | -2.5879 | 0.0966 | -0.8401 | -0.7435 | 8.7000  | -2.0541 | 0.7188 |
|                               | 7 | 8  | 18 | 1 | 0.9748 | 0.9759 | 0.3624 | -2.5647 | 0.1014 | -0.8440 | -0.7426 | 8.3214  | -2.0492 | 0.7288 |
|                               | 7 | 8  | 19 | 1 | 0.9748 | 0.9759 | 0.3624 | -2.5649 | 0.1015 | -0.8442 | -0.7427 | 8.3180  | -2.0493 | 0.7287 |
|                               | 4 | 8  | 10 | 1 | 1.5534 | 1.5547 | 0.0666 | 0.1078  | 0.0494 | -0.0717 | -0.0224 | 1.4539  | -0.3365 | 0.1404 |
|                               | 7 | 8  | 11 | 1 | 1.9200 | 1.9293 | 0.0272 | 0.0807  | 0.0205 | -0.0209 | -0.0004 | 1.0173  | -0.0130 | 0.0373 |
| W <sub>6</sub> S <sub>8</sub> | 7 | 8  | 16 | 1 | 1.6883 | 1.6925 | 0.0482 | 0.1068  | 0.0361 | -0.0455 | -0.0094 | 1.2606  | -0.1954 | 0.0914 |
|                               | 1 | 82 | 2  | 8 | 2.7372 | 2.7396 | 0.0262 | 0.0823  | 0.0204 | -0.0201 | 0.0002  | 0.9890  | 0.0085  | 0.1126 |
|                               | 1 | 82 | 4  | 8 | 2.4132 | 2.4141 | 0.0510 | 0.1723  | 0.0488 | -0.0546 | -0.0058 | 1.1183  | -0.1133 | 0.2083 |
|                               | 1 | 82 | 5  | 8 | 2.5892 | 2.5905 | 0.0350 | 0.1163  | 0.0301 | -0.0312 | -0.0011 | 1.0351  | -0.0303 | 0.1418 |
|                               | 1 | 82 | 6  | 8 | 2.4431 | 2.4441 | 0.0481 | 0.1621  | 0.0453 | -0.0501 | -0.0048 | 1.1056  | -0.0994 | 0.1958 |
|                               | 1 | 82 | 7  | 8 | 2.5046 | 2.5057 | 0.0422 | 0.1415  | 0.0382 | -0.0411 | -0.0029 | 1.0750  | -0.0680 | 0.1739 |
|                               | 2 | 8  | 8  | 1 | 0.9743 | 0.9754 | 0.3628 | -2.5335 | 0.1077 | -0.8488 | -0.7411 | 7.8795  | -2.0425 | 0.7352 |
|                               | 2 | 8  | 9  | 1 | 0.9746 | 0.9757 | 0.3625 | -2.5323 | 0.1072 | -0.8475 | -0.7403 | 7.9052  | -2.0419 | 0.7348 |
|                               | 3 | 8  | 10 | 1 | 0.9753 | 0.9764 | 0.3618 | -2.5559 | 0.1016 | -0.8421 | -0.7405 | 8.2905  | -2.0466 | 0.7284 |
|                               | 3 | 8  | 11 | 1 | 0.9752 | 0.9763 | 0.3620 | -2.5593 | 0.1013 | -0.8424 | -0.7411 | 8.3185  | -2.0475 | 0.7283 |
|                               | 4 | 8  | 12 | 1 | 0.9742 | 0.9756 | 0.3614 | -2.5954 | 0.0940 | -0.8369 | -0.7429 | 8.9014  | -2.0553 | 0.7189 |
|                               | 4 | 8  | 13 | 1 | 0.9763 | 0.9781 | 0.3594 | -2.5949 | 0.0891 | -0.8269 | -0.7378 | 9.2836  | -2.0530 | 0.7150 |
|                               | 5 | 8  | 14 | 1 | 0.9736 | 0.9748 | 0.3629 | -2.5613 | 0.1033 | -0.8469 | -0.7436 | 8.1993  | -2.0490 | 0.7304 |
|                               | 5 | 8  | 15 | 1 | 0.9742 | 0.9753 | 0.3622 | -2.5577 | 0.1021 | -0.8435 | -0.7415 | 8.2658  | -2.0474 | 0.7282 |
|                               | 6 | 8  | 16 | 1 | 0.9964 | 0.9978 | 0.3350 | -2.3457 | 0.0731 | -0.7326 | -0.6595 | 10.0247 | -1.9685 | 0.6608 |
|                               | 6 | 8  | 17 | 1 | 0.9729 | 0.9740 | 0.3627 | -2.5758 | 0.1004 | -0.8449 | -0.7444 | 8.4107  | -2.0521 | 0.7240 |
|                               | 7 | 8  | 18 | 1 | 0.9917 | 0.9930 | 0.3407 | -2.3859 | 0.0796 | -0.7557 | -0.6761 | 9.4932  | -1.9842 | 0.6758 |
|                               | 7 | 8  | 19 | 1 | 0.9727 | 0.9737 | 0.3630 | -2.5585 | 0.1038 | -0.8473 | -0.7435 | 8.1592  | -2.0484 | 0.7271 |
|                               | 3 | 8  | 16 | 1 | 1.7600 | 1.7666 | 0.0402 | 0.1014  | 0.0304 | -0.0355 | -0.0051 | 1.1675  | -0.1268 | 0.0688 |
|                               | 3 | 8  | 18 | 1 | 1.8190 | 1.8278 | 0.0348 | 0.0939  | 0.0263 | -0.0292 | -0.0028 | 1.1079  | -0.0815 | 0.0553 |
|                               | 2 | 8  | 13 | 1 | 2.8313 | 2.9196 | 0.0123 | 0.0545  | 0.0110 | -0.0083 | 0.0027  | 0.7576  | 0.2161  | 0.0044 |
| W <sub>6</sub> S <sub>9</sub> | 1 | 82 | 3  | 8 | 2.3515 | 2.3522 | 0.0589 | 0.2016  | 0.0592 | -0.0680 | -0.0088 | 1.1486  | -0.1493 | 0.2375 |
|                               | 1 | 82 | 4  | 8 | 2.3513 | 2.3521 | 0.0589 | 0.2017  | 0.0592 | -0.0680 | -0.0088 | 1.1487  | -0.1495 | 0.2377 |
|                               | 1 | 82 | 6  | 8 | 2.3173 | 2.3174 | 0.0634 | 0.2211  | 0.0658 | -0.0763 | -0.0105 | 1.1602  | -0.1662 | 0.2576 |
|                               | 2 | 8  | 8  | 1 | 1.0313 | 1.0318 | 0.2983 | -1.9325 | 0.0603 | -0.6038 | -0.5435 | 10.0066 | -1.8217 | 0.5867 |
|                               | 2 | 8  | 9  | 1 | 0.9737 | 0.9743 | 0.3635 | -2.5261 | 0.1106 | -0.8528 | -0.7422 | 7.7081  | -2.0416 | 0.7312 |
|                               | 3 | 8  | 10 | 1 | 0.9733 | 0.9742 | 0.3609 | -2.5848 | 0.0945 | -0.8352 | -0.7407 | 8.8367  | -2.0523 | 0.7153 |
|                               | 3 | 8  | 11 | 1 | 1.0175 | 1.0187 | 0.3114 | -2.0819 | 0.0637 | -0.6479 | -0.5842 | 10.1714 | -1.8762 | 0.6151 |
|                               | 4 | 8  | 12 | 1 | 1.0171 | 1.0183 | 0.3116 | -2.0864 | 0.0636 | -0.6487 | -0.5852 | 10.2067 | -1.8777 | 0.6151 |
|                               | 4 | 8  | 13 | 1 | 0.9733 | 0.9742 | 0.3609 | -2.5849 | 0.0945 | -0.8353 | -0.7407 | 8.8363  | -2.0523 | 0.7153 |
|                               | 5 | 8  | 14 | 1 | 0.9720 | 0.9733 | 0.3653 | -2.5788 | 0.1061 | -0.8568 | -0.7508 | 8.0778  | -2.0555 | 0.7360 |
|                               | 5 | 8  | 15 | 1 | 0.9720 | 0.9734 | 0.3652 | -2.5779 | 0.1061 | -0.8566 | -0.7506 | 8.0755  | -2.0552 | 0.7360 |
|                               | 6 | 8  | 16 | 1 | 0.9738 | 0.9739 | 0.3613 | -2.5386 | 0.1032 | -0.8411 | -0.7379 | 8.1482  | -2.0421 | 0.7229 |
|                               | 6 | 8  | 17 | 1 | 1.0458 | 1.0462 | 0.2819 | -1.7291 | 0.0598 | -0.5519 | -0.4921 | 9.2287  | -1.7456 | 0.5615 |
|                               | 7 | 8  | 18 | 1 | 0.9734 | 0.9749 | 0.3640 | -2.5744 | 0.1037 | -0.8509 | -0.7472 | 8.2092  | -2.0531 | 0.7332 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>6</sub> S <sub>10</sub> | 7 | 8  | 19 | 1 | 0.9733 | 0.9748 | 0.3640 | -2.5759 | 0.1036 | -0.8511 | -0.7476 | 8.2169  | -2.0535 | 0.7331 |
|                                | 2 | 8  | 11 | 1 | 1.6296 | 1.6365 | 0.0569 | 0.1066  | 0.0419 | -0.0572 | -0.0153 | 1.3643  | -0.2685 | 0.1179 |
|                                | 2 | 8  | 12 | 1 | 1.6286 | 1.6355 | 0.0570 | 0.1069  | 0.0421 | -0.0574 | -0.0153 | 1.3648  | -0.2691 | 0.1180 |
|                                | 5 | 8  | 8  | 1 | 1.5423 | 1.5430 | 0.0687 | 0.1044  | 0.0505 | -0.0749 | -0.0244 | 1.4833  | -0.3551 | 0.1491 |
|                                | 7 | 8  | 17 | 1 | 1.4947 | 1.4957 | 0.0787 | 0.0834  | 0.0554 | -0.0899 | -0.0345 | 1.6234  | -0.4388 | 0.1778 |
|                                | 1 | 82 | 2  | 8 | 2.4610 | 2.4627 | 0.0469 | 0.1547  | 0.0433 | -0.0479 | -0.0046 | 1.1065  | -0.0983 | 0.1952 |
|                                | 1 | 82 | 3  | 8 | 2.4248 | 2.4258 | 0.0493 | 0.1690  | 0.0472 | -0.0521 | -0.0049 | 1.1044  | -0.1000 | 0.1996 |
|                                | 1 | 82 | 4  | 8 | 2.5509 | 2.5514 | 0.0375 | 0.1275  | 0.0333 | -0.0347 | -0.0014 | 1.0428  | -0.0380 | 0.1444 |
|                                | 1 | 82 | 7  | 8 | 2.3425 | 2.3430 | 0.0601 | 0.2062  | 0.0608 | -0.0701 | -0.0093 | 1.1527  | -0.1546 | 0.2478 |
|                                | 2 | 8  | 8  | 1 | 1.0072 | 1.0085 | 0.3237 | -2.2042 | 0.0707 | -0.6925 | -0.6218 | 9.7943  | -1.9210 | 0.6416 |
| W <sub>6</sub> S <sub>11</sub> | 2 | 8  | 9  | 1 | 0.9736 | 0.9746 | 0.3620 | -2.5508 | 0.1027 | -0.8432 | -0.7404 | 8.2076  | -2.0456 | 0.7253 |
|                                | 3 | 8  | 10 | 1 | 0.9748 | 0.9760 | 0.3605 | -2.5947 | 0.0917 | -0.8321 | -0.7404 | 9.0710  | -2.0541 | 0.7168 |
|                                | 3 | 8  | 11 | 1 | 0.9748 | 0.9762 | 0.3608 | -2.6025 | 0.0914 | -0.8333 | -0.7420 | 9.1217  | -2.0563 | 0.7183 |
|                                | 4 | 8  | 12 | 1 | 0.9744 | 0.9754 | 0.3614 | -2.5737 | 0.0976 | -0.8385 | -0.7410 | 8.5955  | -2.0503 | 0.7236 |
|                                | 4 | 8  | 13 | 1 | 0.9737 | 0.9747 | 0.3624 | -2.5705 | 0.1005 | -0.8436 | -0.7431 | 8.3949  | -2.0506 | 0.7264 |
|                                | 5 | 8  | 14 | 1 | 0.9722 | 0.9735 | 0.3652 | -2.5701 | 0.1075 | -0.8574 | -0.7500 | 7.9788  | -2.0535 | 0.7377 |
|                                | 5 | 8  | 15 | 1 | 0.9718 | 0.9731 | 0.3657 | -2.5763 | 0.1075 | -0.8590 | -0.7515 | 7.9932  | -2.0553 | 0.7378 |
|                                | 6 | 8  | 16 | 1 | 0.9730 | 0.9736 | 0.3643 | -2.5307 | 0.1118 | -0.8562 | -0.7444 | 7.6614  | -2.0434 | 0.7330 |
|                                | 6 | 8  | 17 | 1 | 1.0292 | 1.0296 | 0.3006 | -1.9573 | 0.0610 | -0.6113 | -0.5503 | 10.0223 | -1.8310 | 0.5915 |
|                                | 7 | 8  | 18 | 1 | 1.0238 | 1.0249 | 0.3048 | -2.0028 | 0.0626 | -0.6259 | -0.5633 | 10.0004 | -1.8480 | 0.6031 |
| W <sub>6</sub> S <sub>12</sub> | 7 | 8  | 19 | 1 | 0.9728 | 0.9736 | 0.3619 | -2.5779 | 0.0981 | -0.8407 | -0.7426 | 8.5675  | -2.0518 | 0.7189 |
|                                | 5 | 8  | 17 | 1 | 1.5559 | 1.5567 | 0.0665 | 0.1054  | 0.0489 | -0.0714 | -0.0225 | 1.4610  | -0.3390 | 0.1436 |
|                                | 6 | 8  | 8  | 1 | 1.6965 | 1.7020 | 0.0482 | 0.1055  | 0.0359 | -0.0454 | -0.0095 | 1.2651  | -0.1976 | 0.0928 |
|                                | 6 | 8  | 18 | 1 | 1.5922 | 1.5970 | 0.0624 | 0.1047  | 0.0456 | -0.0651 | -0.0195 | 1.4263  | -0.3118 | 0.1328 |
|                                | 1 | 82 | 6  | 8 | 2.5933 | 2.5949 | 0.0346 | 0.1143  | 0.0296 | -0.0306 | -0.0010 | 1.0344  | -0.0294 | 0.1380 |
|                                | 1 | 82 | 2  | 8 | 2.2227 | 2.2229 | 0.0803 | 0.2745  | 0.0887 | -0.1088 | -0.0201 | 1.2262  | -0.2497 | 0.3427 |
|                                | 1 | 82 | 7  | 8 | 2.5978 | 2.5993 | 0.0343 | 0.1132  | 0.0292 | -0.0302 | -0.0009 | 1.0323  | -0.0276 | 0.1368 |
|                                | 1 | 82 | 4  | 8 | 2.4331 | 2.4342 | 0.0485 | 0.1655  | 0.0461 | -0.0508 | -0.0047 | 1.1023  | -0.0972 | 0.1988 |
|                                | 2 | 8  | 9  | 1 | 0.9727 | 0.9731 | 0.3629 | -2.4376 | 0.1238 | -0.8570 | -0.7332 | 6.9222  | -2.0205 | 0.7418 |
|                                | 3 | 8  | 8  | 1 | 1.1425 | 1.1427 | 0.2098 | -0.8213 | 0.0759 | -0.3571 | -0.2812 | 4.7064  | -1.3400 | 0.4485 |
| W <sub>6</sub> S <sub>13</sub> | 3 | 8  | 10 | 1 | 0.9723 | 0.9737 | 0.3643 | -2.6206 | 0.0967 | -0.8485 | -0.7518 | 8.7780  | -2.0640 | 0.7234 |
|                                | 3 | 8  | 11 | 1 | 1.0490 | 1.0498 | 0.2803 | -1.7377 | 0.0550 | -0.5445 | -0.4894 | 9.8973  | -1.7464 | 0.5517 |
|                                | 4 | 8  | 12 | 1 | 0.9746 | 0.9761 | 0.3613 | -2.5976 | 0.0934 | -0.8361 | -0.7428 | 8.9559  | -2.0557 | 0.7199 |
|                                | 4 | 8  | 13 | 1 | 0.9746 | 0.9761 | 0.3614 | -2.5971 | 0.0936 | -0.8365 | -0.7429 | 8.9379  | -2.0556 | 0.7201 |
|                                | 5 | 8  | 14 | 1 | 0.9731 | 0.9746 | 0.3640 | -2.5832 | 0.1023 | -0.8504 | -0.7481 | 8.3134  | -2.0552 | 0.7316 |
|                                | 5 | 8  | 15 | 1 | 0.9721 | 0.9735 | 0.3650 | -2.5964 | 0.1025 | -0.8541 | -0.7516 | 8.3319  | -2.0592 | 0.7323 |
|                                | 6 | 8  | 16 | 1 | 0.9736 | 0.9747 | 0.3632 | -2.5563 | 0.1049 | -0.8489 | -0.7440 | 8.0918  | -2.0482 | 0.7322 |
|                                | 6 | 8  | 17 | 1 | 0.9745 | 0.9756 | 0.3622 | -2.5537 | 0.1027 | -0.8439 | -0.7412 | 8.2136  | -2.0464 | 0.7300 |
|                                | 7 | 8  | 18 | 1 | 0.9737 | 0.9749 | 0.3631 | -2.5537 | 0.1049 | -0.8483 | -0.7434 | 8.0842  | -2.0474 | 0.7321 |
|                                | 7 | 8  | 19 | 1 | 0.9745 | 0.9756 | 0.3622 | -2.5535 | 0.1028 | -0.8439 | -0.7411 | 8.2119  | -2.0464 | 0.7300 |
| W <sub>6</sub> S <sub>10</sub> | 2 | 8  | 8  | 1 | 1.2970 | 1.2971 | 0.1341 | -0.1379 | 0.0779 | -0.1904 | -0.1124 | 2.4424  | -0.8381 | 0.3119 |
|                                | 5 | 8  | 11 | 1 | 1.4768 | 1.4777 | 0.0818 | 0.0795  | 0.0575 | -0.0952 | -0.0377 | 1.6545  | -0.4602 | 0.1873 |
|                                | 1 | 82 | 3  | 8 | 2.3482 | 2.3485 | 0.0588 | 0.2041  | 0.0595 | -0.0680 | -0.0085 | 1.1428  | -0.1446 | 0.2318 |
|                                | 1 | 82 | 7  | 8 | 2.4748 | 2.4758 | 0.0450 | 0.1524  | 0.0417 | -0.0453 | -0.0036 | 1.0870  | -0.0807 | 0.1763 |
|                                | 1 | 82 | 2  | 8 | 2.3978 | 2.3985 | 0.0531 | 0.1788  | 0.0513 | -0.0579 | -0.0066 | 1.1290  | -0.1247 | 0.2209 |
|                                | 1 | 82 | 4  | 8 | 2.5613 | 2.5622 | 0.0371 | 0.1248  | 0.0326 | -0.0341 | -0.0014 | 1.0439  | -0.0386 | 0.1420 |
|                                | 2 | 8  | 8  | 1 | 0.9742 | 0.9752 | 0.3614 | -2.5507 | 0.1014 | -0.8404 | -0.7391 | 8.2896  | -2.0449 | 0.7244 |
|                                | 2 | 8  | 9  | 1 | 1.0035 | 1.0046 | 0.3267 | -2.2579 | 0.0686 | -0.7017 | -0.6331 | 10.2273 | -1.9379 | 0.6375 |
|                                | 3 | 8  | 10 | 1 | 1.0064 | 1.0077 | 0.3228 | -2.2358 | 0.0635 | -0.6859 | -0.6224 | 10.8058 | -1.9283 | 0.6328 |
|                                | 3 | 8  | 11 | 1 | 0.9726 | 0.9734 | 0.3614 | -2.6070 | 0.0919 | -0.8355 | -0.7436 | 9.0931  | -2.0579 | 0.7137 |
| W <sub>6</sub> S <sub>13</sub> | 4 | 8  | 12 | 1 | 0.9746 | 0.9757 | 0.3615 | -2.5643 | 0.0992 | -0.8396 | -0.7403 | 8.4597  | -2.0481 | 0.7255 |
|                                | 4 | 8  | 13 | 1 | 0.9737 | 0.9747 | 0.3626 | -2.5657 | 0.1019 | -0.8451 | -0.7433 | 8.2973  | -2.0497 | 0.7282 |
|                                | 5 | 8  | 14 | 1 | 0.9739 | 0.9752 | 0.3620 | -2.5906 | 0.0962 | -0.8401 | -0.7439 | 8.7302  | -2.0548 | 0.7215 |
|                                | 5 | 8  | 15 | 1 | 0.9846 | 0.9862 | 0.3507 | -2.4679 | 0.0896 | -0.7961 | -0.7065 | 8.8885  | -2.0143 | 0.7008 |
|                                | 6 | 8  | 16 | 1 | 0.9758 | 0.9770 | 0.3620 | -2.5352 | 0.1053 | -0.8444 | -0.7391 | 8.0190  | -2.0420 | 0.7335 |
|                                | 6 | 8  | 17 | 1 | 0.9755 | 0.9767 | 0.3623 | -2.5433 | 0.1048 | -0.8454 | -0.7406 | 8.0689  | -2.0442 | 0.7330 |
|                                | 7 | 8  | 18 | 1 | 0.9733 | 0.9743 | 0.3616 | -2.5748 | 0.0978 | -0.8394 | -0.7415 | 8.5797  | -2.0507 | 0.7208 |
|                                | 7 | 8  | 19 | 1 | 0.9904 | 0.9919 | 0.3420 | -2.4116 | 0.0784 | -0.7597 | -0.6813 | 9.6911  | -1.9918 | 0.6760 |
|                                | 5 | 8  | 10 | 1 | 1.6746 | 1.6813 | 0.0501 | 0.1095  | 0.0378 | -0.0482 | -0.0104 | 1.2752  | -0.2077 | 0.0957 |
|                                | 5 | 8  | 19 | 1 | 1.8209 | 1.8350 | 0.0350 | 0.0971  | 0.0269 | -0.0296 | -0.0026 | 1.0985  | -0.0758 | 0.0538 |
| W <sub>6</sub> S <sub>13</sub> | 6 | 8  | 9  | 1 | 1.7418 | 1.7429 | 0.0425 | 0.0956  | 0.0308 | -0.0377 | -0.0069 | 1.2245  | -0.1626 | 0.0820 |
|                                | 6 | 8  | 15 | 1 | 1.9766 | 1.9937 | 0.0242 | 0.0737  | 0.0181 | -0.0178 | 0.0003  | 0.9829  | 0.0128  | 0.0315 |
|                                | 1 | 82 | 2  | 8 | 2.3941 | 2.3945 | 0.0533 | 0.1827  | 0.0521 | -0.0586 | -0.0065 | 1.1238  | -0.1210 | 0.2116 |
|                                | 1 | 82 | 3  | 8 | 2.3776 | 2.3783 | 0.0552 | 0.1905  | 0.0547 | -0.0619 | -0.0071 | 1.1300  | -0.1289 | 0.2192 |
|                                | 1 | 82 | 6  | 8 | 2.2689 | 2.2690 | 0.0717 | 0.2472  | 0.0767 | -0.0917 | -0.0149 | 1.1947  | -0.2083 | 0.2882 |
| W <sub>6</sub> S <sub>13</sub> | 2 | 8  | 8  | 1 | 0.9736 | 0.9743 | 0.3619 | -2.5536 | 0.1021 | -0.8426 | -0.7405 | 8.2529  | -2.0461 | 0.7241 |
|                                | 2 | 8  | 9  | 1 | 1.0106 | 1.0113 | 0.3181 | -2.1656 | 0.0647 | -0.6708 | -0.6061 | 10.3702 | -1.9053 | 0.6159 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>6</sub> S <sub>14</sub> | 3 | 8  | 10 | 1 | 1.0024 | 1.0036 | 0.3275 | -2.2812 | 0.0666 | -0.7035 | -0.6369 | 10.5630 | -1.9447 | 0.6434 |
|                                | 3 | 8  | 11 | 1 | 0.9740 | 0.9749 | 0.3603 | -2.5885 | 0.0923 | -0.8317 | -0.7394 | 9.0116  | -2.0525 | 0.7135 |
|                                | 4 | 8  | 12 | 1 | 0.9750 | 0.9762 | 0.3627 | -2.5488 | 0.1049 | -0.8470 | -0.7421 | 8.0734  | -2.0459 | 0.7333 |
|                                | 4 | 8  | 13 | 1 | 0.9751 | 0.9763 | 0.3626 | -2.5482 | 0.1048 | -0.8467 | -0.7419 | 8.0774  | -2.0457 | 0.7334 |
|                                | 5 | 8  | 14 | 1 | 0.9722 | 0.9738 | 0.3638 | -2.6040 | 0.0983 | -0.8477 | -0.7493 | 8.6195  | -2.0597 | 0.7254 |
|                                | 5 | 8  | 15 | 1 | 0.9777 | 0.9795 | 0.3579 | -2.5451 | 0.0937 | -0.8237 | -0.7300 | 8.7886  | -2.0399 | 0.7138 |
|                                | 6 | 8  | 16 | 1 | 0.9882 | 0.9892 | 0.3428 | -2.4178 | 0.0791 | -0.7627 | -0.6836 | 9.6374  | -1.9941 | 0.6731 |
|                                | 6 | 8  | 17 | 1 | 1.0469 | 1.0474 | 0.2807 | -1.7119 | 0.0602 | -0.5484 | -0.4882 | 9.1072  | -1.7392 | 0.5582 |
|                                | 7 | 8  | 18 | 1 | 0.9755 | 0.9766 | 0.3616 | -2.5627 | 0.0998 | -0.8404 | -0.7405 | 8.4171  | -2.0479 | 0.7266 |
|                                | 7 | 8  | 19 | 1 | 0.9751 | 0.9761 | 0.3621 | -2.5623 | 0.1012 | -0.8429 | -0.7417 | 8.3321  | -2.0484 | 0.7282 |
|                                | 4 | 8  | 9  | 1 | 1.6781 | 1.6790 | 0.0497 | 0.1006  | 0.0361 | -0.0470 | -0.0109 | 1.3027  | -0.2196 | 0.1008 |
|                                | 4 | 8  | 15 | 1 | 2.0498 | 2.0721 | 0.0202 | 0.0662  | 0.0153 | -0.0141 | 0.0012  | 0.9219  | 0.0592  | 0.0220 |
|                                | 5 | 8  | 17 | 1 | 1.4704 | 1.4718 | 0.0831 | 0.0838  | 0.0594 | -0.0978 | -0.0384 | 1.6473  | -0.4627 | 0.1846 |
|                                | 7 | 8  | 10 | 1 | 1.7138 | 1.7197 | 0.0453 | 0.1052  | 0.0340 | -0.0418 | -0.0077 | 1.2272  | -0.1709 | 0.0838 |
|                                | 7 | 8  | 16 | 1 | 1.8714 | 1.8814 | 0.0306 | 0.0866  | 0.0231 | -0.0244 | -0.0014 | 1.0604  | -0.0454 | 0.0470 |
|                                | 1 | 82 | 3  | 8 | 2.5836 | 2.5851 | 0.0355 | 0.1168  | 0.0305 | -0.0317 | -0.0013 | 1.0413  | -0.0355 | 0.1409 |
|                                | 1 | 82 | 4  | 8 | 2.4061 | 2.4069 | 0.0513 | 0.1772  | 0.0498 | -0.0554 | -0.0055 | 1.1113  | -0.1082 | 0.2034 |
|                                | 1 | 82 | 5  | 8 | 2.2628 | 2.2628 | 0.0723 | 0.2516  | 0.0780 | -0.0931 | -0.0151 | 1.1936  | -0.2087 | 0.2977 |
|                                | 1 | 82 | 7  | 8 | 2.5794 | 2.5808 | 0.0358 | 0.1180  | 0.0308 | -0.0321 | -0.0013 | 1.0424  | -0.0366 | 0.1416 |
|                                | 2 | 8  | 8  | 1 | 0.9721 | 0.9735 | 0.3654 | -2.5675 | 0.1084 | -0.8587 | -0.7503 | 7.9192  | -2.0531 | 0.7385 |
|                                | 2 | 8  | 9  | 1 | 0.9726 | 0.9739 | 0.3650 | -2.5592 | 0.1088 | -0.8574 | -0.7486 | 7.8811  | -2.0508 | 0.7386 |
|                                | 3 | 8  | 10 | 1 | 0.9738 | 0.9750 | 0.3628 | -2.5577 | 0.1037 | -0.8468 | -0.7431 | 8.1668  | -2.0481 | 0.7306 |
|                                | 3 | 8  | 11 | 1 | 0.9750 | 0.9761 | 0.3615 | -2.5532 | 0.1011 | -0.8405 | -0.7394 | 8.3129  | -2.0456 | 0.7279 |
|                                | 4 | 8  | 12 | 1 | 0.9744 | 0.9758 | 0.3610 | -2.6122 | 0.0902 | -0.8334 | -0.7432 | 9.2420  | -2.0587 | 0.7165 |
|                                | 4 | 8  | 13 | 1 | 0.9743 | 0.9757 | 0.3611 | -2.6090 | 0.0908 | -0.8339 | -0.7431 | 9.1837  | -2.0580 | 0.7169 |
|                                | 5 | 8  | 14 | 1 | 1.0238 | 1.0242 | 0.3037 | -1.9898 | 0.0624 | -0.6223 | -0.5599 | 9.9704  | -1.8433 | 0.5972 |
|                                | 5 | 8  | 15 | 1 | 1.0238 | 1.0241 | 0.3027 | -1.9873 | 0.0605 | -0.6178 | -0.5573 | 10.2108 | -1.8415 | 0.5930 |
|                                | 6 | 8  | 16 | 1 | 0.9718 | 0.9731 | 0.3655 | -2.5801 | 0.1065 | -0.8581 | -0.7515 | 8.0550  | -2.0561 | 0.7359 |
|                                | 6 | 8  | 17 | 1 | 0.9720 | 0.9733 | 0.3654 | -2.5748 | 0.1070 | -0.8577 | -0.7507 | 8.0168  | -2.0547 | 0.7363 |
|                                | 7 | 8  | 18 | 1 | 0.9749 | 0.9760 | 0.3615 | -2.5552 | 0.1008 | -0.8404 | -0.7396 | 8.3383  | -2.0460 | 0.7275 |
|                                | 7 | 8  | 19 | 1 | 0.9739 | 0.9750 | 0.3628 | -2.5584 | 0.1034 | -0.8465 | -0.7430 | 8.1835  | -2.0482 | 0.7304 |
| W <sub>6</sub> S <sub>15</sub> | 2 | 8  | 15 | 1 | 1.5698 | 1.5708 | 0.0640 | 0.1063  | 0.0471 | -0.0677 | -0.0205 | 1.4361  | -0.3210 | 0.1361 |
|                                | 6 | 8  | 14 | 1 | 1.5624 | 1.5640 | 0.0649 | 0.1100  | 0.0485 | -0.0694 | -0.0210 | 1.4324  | -0.3227 | 0.1358 |
|                                | 1 | 82 | 2  | 8 | 2.3206 | 2.3210 | 0.0637 | 0.2158  | 0.0651 | -0.0763 | -0.0112 | 1.1716  | -0.1755 | 0.2663 |
|                                | 1 | 82 | 3  | 8 | 2.5050 | 2.5058 | 0.0422 | 0.1408  | 0.0382 | -0.0411 | -0.0030 | 1.0778  | -0.0703 | 0.1711 |
|                                | 1 | 82 | 5  | 8 | 2.5694 | 2.5708 | 0.0365 | 0.1216  | 0.0318 | -0.0331 | -0.0014 | 1.0432  | -0.0377 | 0.1418 |
|                                | 1 | 82 | 7  | 8 | 2.4044 | 2.4049 | 0.0512 | 0.1785  | 0.0500 | -0.0554 | -0.0054 | 1.1073  | -0.1049 | 0.2017 |
|                                | 2 | 8  | 8  | 1 | 0.9734 | 0.9742 | 0.3617 | -2.5282 | 0.1058 | -0.8436 | -0.7378 | 7.9754  | -2.0400 | 0.7256 |
|                                | 2 | 8  | 9  | 1 | 1.0562 | 1.0566 | 0.2735 | -1.6028 | 0.0638 | -0.5283 | -0.4645 | 8.2794  | -1.6982 | 0.5419 |
|                                | 3 | 8  | 10 | 1 | 0.9734 | 0.9742 | 0.3630 | -2.5291 | 0.1089 | -0.8501 | -0.7412 | 7.8053  | -2.0417 | 0.7328 |
|                                | 3 | 8  | 11 | 1 | 1.0000 | 1.0009 | 0.3308 | -2.2857 | 0.0733 | -0.7180 | -0.6447 | 9.7974  | -1.9491 | 0.6432 |
|                                | 4 | 8  | 12 | 1 | 0.9722 | 0.9737 | 0.3642 | -2.5933 | 0.1011 | -0.8505 | -0.7494 | 8.4144  | -2.0577 | 0.7283 |
|                                | 4 | 8  | 13 | 1 | 0.9827 | 0.9846 | 0.3521 | -2.4924 | 0.0888 | -0.8007 | -0.7119 | 9.0167  | -2.0216 | 0.6992 |
|                                | 5 | 8  | 14 | 1 | 0.9749 | 0.9759 | 0.3613 | -2.5607 | 0.0994 | -0.8389 | -0.7395 | 8.4423  | -2.0471 | 0.7254 |
|                                | 5 | 8  | 15 | 1 | 0.9740 | 0.9752 | 0.3624 | -2.5635 | 0.1017 | -0.8442 | -0.7425 | 8.3041  | -2.0489 | 0.7284 |
|                                | 6 | 8  | 16 | 1 | 0.9750 | 0.9762 | 0.3626 | -2.5456 | 0.1051 | -0.8467 | -0.7415 | 8.0535  | -2.0450 | 0.7332 |
|                                | 6 | 8  | 17 | 1 | 0.9747 | 0.9759 | 0.3630 | -2.5501 | 0.1053 | -0.8481 | -0.7428 | 8.0550  | -2.0465 | 0.7336 |
|                                | 7 | 8  | 18 | 1 | 0.9738 | 0.9750 | 0.3613 | -2.6160 | 0.0902 | -0.8344 | -0.7442 | 9.2494  | -2.0599 | 0.7160 |
|                                | 7 | 8  | 19 | 1 | 0.9744 | 0.9756 | 0.3606 | -2.6147 | 0.0889 | -0.8314 | -0.7425 | 9.3550  | -2.0589 | 0.7147 |
|                                | 4 | 8  | 9  | 1 | 1.4559 | 1.4568 | 0.0874 | 0.0685  | 0.0609 | -0.1046 | -0.0437 | 1.7185  | -0.5002 | 0.1997 |
|                                | 6 | 8  | 11 | 1 | 1.7534 | 1.7546 | 0.0411 | 0.0964  | 0.0301 | -0.0362 | -0.0060 | 1.1999  | -0.1465 | 0.0756 |
|                                | 6 | 8  | 13 | 1 | 1.9133 | 1.9263 | 0.0278 | 0.0834  | 0.0212 | -0.0216 | -0.0004 | 1.0186  | -0.0142 | 0.0375 |
| W <sub>6</sub> S <sub>16</sub> | 1 | 82 | 2  | 8 | 2.6641 | 2.6653 | 0.0301 | 0.0989  | 0.0248 | -0.0250 | -0.0001 | 1.0049  | -0.0040 | 0.1215 |
|                                | 1 | 82 | 3  | 8 | 2.5406 | 2.5422 | 0.0388 | 0.1284  | 0.0342 | -0.0362 | -0.0021 | 1.0606  | -0.0534 | 0.1608 |
|                                | 1 | 82 | 5  | 8 | 2.6256 | 2.6275 | 0.0327 | 0.1054  | 0.0272 | -0.0280 | -0.0008 | 1.0304  | -0.0253 | 0.1399 |
|                                | 1 | 82 | 6  | 8 | 2.3937 | 2.3939 | 0.0538 | 0.1848  | 0.0528 | -0.0595 | -0.0066 | 1.1255  | -0.1232 | 0.2145 |
|                                | 1 | 82 | 7  | 8 | 2.4255 | 2.4261 | 0.0488 | 0.1687  | 0.0468 | -0.0514 | -0.0046 | 1.0990  | -0.0950 | 0.1935 |
|                                | 2 | 8  | 8  | 1 | 0.9734 | 0.9744 | 0.3637 | -2.5407 | 0.1085 | -0.8523 | -0.7437 | 7.8523  | -2.0451 | 0.7352 |
|                                | 2 | 8  | 9  | 1 | 0.9743 | 0.9753 | 0.3627 | -2.5373 | 0.1067 | -0.8477 | -0.7410 | 7.9443  | -2.0432 | 0.7337 |
|                                | 3 | 8  | 10 | 1 | 0.9745 | 0.9758 | 0.3621 | -2.5645 | 0.1008 | -0.8427 | -0.7419 | 8.3603  | -2.0489 | 0.7281 |
|                                | 3 | 8  | 11 | 1 | 0.9742 | 0.9755 | 0.3623 | -2.5640 | 0.1013 | -0.8437 | -0.7423 | 8.3254  | -2.0490 | 0.7277 |
|                                | 4 | 8  | 12 | 1 | 0.9723 | 0.9736 | 0.3650 | -2.5781 | 0.1055 | -0.8555 | -0.7500 | 8.1086  | -2.0550 | 0.7352 |
|                                | 4 | 8  | 13 | 1 | 0.9720 | 0.9733 | 0.3652 | -2.5822 | 0.1054 | -0.8564 | -0.7510 | 8.1219  | -2.0562 | 0.7352 |
|                                | 5 | 8  | 14 | 1 | 0.9747 | 0.9759 | 0.3620 | -2.5441 | 0.1040 | -0.8441 | -0.7401 | 8.1137  | -2.0441 | 0.7311 |
|                                | 5 | 8  | 15 | 1 | 0.9744 | 0.9755 | 0.3625 | -2.5433 | 0.1053 | -0.8464 | -0.7411 | 8.0401  | -2.0444 | 0.7325 |
|                                | 6 | 8  | 16 | 1 | 0.9718 | 0.9723 | 0.3641 | -2.5394 | 0.1098 | -0.8544 | -0.7446 | 7.7825  | -2.0452 | 0.7307 |
|                                | 6 | 8  | 17 | 1 | 1.0316 | 1.0321 | 0.2961 | -1.9045 | 0.0602 | -0.5965 | -0.5363 | 9.9123  | -1.8115 | 0.5863 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>6</sub> S <sub>17</sub> | 7 | 8  | 18 | 1 | 0.9741 | 0.9755 | 0.3615 | -2.6021 | 0.0930 | -0.8364 | -0.7435 | 8.9986  | -2.0569 | 0.7187 |
|                                | 7 | 8  | 19 | 1 | 0.9740 | 0.9754 | 0.3616 | -2.6129 | 0.0914 | -0.8360 | -0.7446 | 9.1476  | -2.0594 | 0.7180 |
|                                | 4 | 8  | 17 | 1 | 1.5326 | 1.5334 | 0.0704 | 0.1022  | 0.0515 | -0.0775 | -0.0260 | 1.5041  | -0.3688 | 0.1515 |
|                                | 1 | 82 | 2  | 8 | 2.6653 | 2.6664 | 0.0302 | 0.0981  | 0.0248 | -0.0250 | -0.0002 | 1.0098  | -0.0080 | 0.1284 |
|                                | 1 | 82 | 3  | 8 | 2.5294 | 2.5297 | 0.0393 | 0.1334  | 0.0353 | -0.0372 | -0.0019 | 1.0549  | -0.0493 | 0.1580 |
|                                | 1 | 82 | 4  | 8 | 2.5298 | 2.5302 | 0.0393 | 0.1333  | 0.0353 | -0.0372 | -0.0019 | 1.0549  | -0.0493 | 0.1579 |
|                                | 1 | 82 | 5  | 8 | 2.6673 | 2.6684 | 0.0301 | 0.0977  | 0.0246 | -0.0249 | -0.0002 | 1.0092  | -0.0075 | 0.1281 |
|                                | 1 | 82 | 6  | 8 | 2.5313 | 2.5316 | 0.0392 | 0.1328  | 0.0351 | -0.0370 | -0.0019 | 1.0543  | -0.0486 | 0.1575 |
|                                | 1 | 82 | 7  | 8 | 2.6645 | 2.6656 | 0.0303 | 0.0983  | 0.0248 | -0.0251 | -0.0003 | 1.0101  | -0.0083 | 0.1286 |
|                                | 2 | 8  | 8  | 1 | 0.9737 | 0.9747 | 0.3633 | -2.5392 | 0.1079 | -0.8506 | -0.7427 | 7.8836  | -2.0443 | 0.7349 |
| W <sub>6</sub> S <sub>18</sub> | 2 | 8  | 9  | 1 | 0.9740 | 0.9750 | 0.3629 | -2.5391 | 0.1069 | -0.8486 | -0.7417 | 7.9367  | -2.0439 | 0.7339 |
|                                | 3 | 8  | 10 | 1 | 0.9735 | 0.9747 | 0.3626 | -2.5793 | 0.0996 | -0.8441 | -0.7445 | 8.4720  | -2.0528 | 0.7265 |
|                                | 3 | 8  | 11 | 1 | 0.9731 | 0.9743 | 0.3630 | -2.5800 | 0.1002 | -0.8455 | -0.7453 | 8.4341  | -2.0533 | 0.7261 |
|                                | 4 | 8  | 12 | 1 | 0.9732 | 0.9743 | 0.3629 | -2.5795 | 0.1002 | -0.8452 | -0.7450 | 8.4377  | -2.0531 | 0.7259 |
|                                | 4 | 8  | 13 | 1 | 0.9736 | 0.9748 | 0.3626 | -2.5782 | 0.0997 | -0.8440 | -0.7443 | 8.4627  | -2.0525 | 0.7267 |
|                                | 5 | 8  | 14 | 1 | 0.9740 | 0.9751 | 0.3628 | -2.5379 | 0.1070 | -0.8484 | -0.7415 | 7.9302  | -2.0435 | 0.7340 |
|                                | 5 | 8  | 15 | 1 | 0.9737 | 0.9748 | 0.3633 | -2.5390 | 0.1080 | -0.8507 | -0.7427 | 7.8797  | -2.0443 | 0.7351 |
|                                | 6 | 8  | 16 | 1 | 0.9731 | 0.9743 | 0.3629 | -2.5795 | 0.1002 | -0.8454 | -0.7451 | 8.4327  | -2.0532 | 0.7261 |
|                                | 6 | 8  | 17 | 1 | 0.9735 | 0.9747 | 0.3627 | -2.5790 | 0.0998 | -0.8444 | -0.7446 | 8.4605  | -2.0528 | 0.7268 |
|                                | 7 | 8  | 18 | 1 | 0.9738 | 0.9748 | 0.3632 | -2.5381 | 0.1078 | -0.8502 | -0.7424 | 7.8854  | -2.0440 | 0.7348 |
| W <sub>6</sub> S <sub>19</sub> | 7 | 8  | 19 | 1 | 0.9742 | 0.9753 | 0.3627 | -2.5357 | 0.1070 | -0.8478 | -0.7409 | 7.9269  | -2.0428 | 0.7339 |
|                                | 1 | 82 | 3  | 8 | 2.3732 | 2.3740 | 0.0559 | 0.1914  | 0.0554 | -0.0629 | -0.0075 | 1.1362  | -0.1349 | 0.2211 |
|                                | 1 | 82 | 6  | 8 | 2.3468 | 2.3471 | 0.0589 | 0.2057  | 0.0599 | -0.0683 | -0.0084 | 1.1409  | -0.1433 | 0.2241 |
|                                | 1 | 82 | 5  | 8 | 2.3023 | 2.3025 | 0.0656 | 0.2298  | 0.0689 | -0.0804 | -0.0115 | 1.1663  | -0.1748 | 0.2588 |
|                                | 2 | 8  | 8  | 1 | 0.9752 | 0.9764 | 0.3624 | -2.5431 | 0.1051 | -0.8460 | -0.7409 | 8.0500  | -2.0443 | 0.7332 |
|                                | 2 | 8  | 9  | 1 | 0.9752 | 0.9764 | 0.3625 | -2.5427 | 0.1054 | -0.8465 | -0.7411 | 8.0313  | -2.0443 | 0.7338 |
|                                | 3 | 8  | 10 | 1 | 1.0025 | 1.0038 | 0.3277 | -2.2766 | 0.0677 | -0.7046 | -0.6369 | 10.4057 | -1.9437 | 0.6457 |
|                                | 3 | 8  | 11 | 1 | 0.9737 | 0.9748 | 0.3605 | -2.5951 | 0.0917 | -0.8321 | -0.7404 | 9.0783  | -2.0542 | 0.7137 |
|                                | 4 | 8  | 12 | 1 | 0.9996 | 1.0007 | 0.3327 | -2.3092 | 0.0738 | -0.7249 | -0.6511 | 9.8194  | -1.9570 | 0.6570 |
|                                | 4 | 8  | 13 | 1 | 0.9744 | 0.9754 | 0.3622 | -2.5530 | 0.1030 | -0.8443 | -0.7413 | 8.1962  | -2.0463 | 0.7268 |
| W <sub>6</sub> S <sub>20</sub> | 5 | 8  | 14 | 1 | 0.9734 | 0.9737 | 0.3610 | -2.5521 | 0.1002 | -0.8384 | -0.7382 | 8.3700  | -2.0448 | 0.7182 |
|                                | 5 | 8  | 15 | 1 | 1.0506 | 1.0509 | 0.2776 | -1.6727 | 0.0604 | -0.5390 | -0.4786 | 8.9236  | -1.7240 | 0.5551 |
|                                | 6 | 8  | 16 | 1 | 0.9733 | 0.9741 | 0.3603 | -2.6063 | 0.0895 | -0.8305 | -0.7410 | 9.2834  | -2.0567 | 0.7099 |
|                                | 6 | 8  | 17 | 1 | 1.0053 | 1.0065 | 0.3237 | -2.2479 | 0.0635 | -0.6890 | -0.6255 | 10.8501 | -1.9323 | 0.6346 |
|                                | 7 | 8  | 18 | 1 | 0.9723 | 0.9737 | 0.3644 | -2.5817 | 0.1035 | -0.8524 | -0.7489 | 8.2354  | -2.0552 | 0.7314 |
|                                | 7 | 8  | 19 | 1 | 0.9851 | 0.9867 | 0.3494 | -2.4574 | 0.0880 | -0.7904 | -0.7024 | 8.9788  | -2.0104 | 0.6960 |
|                                | 2 | 8  | 12 | 1 | 1.7615 | 1.7641 | 0.0404 | 0.0966  | 0.0297 | -0.0353 | -0.0056 | 1.1880  | -0.1385 | 0.0738 |
|                                | 2 | 8  | 19 | 1 | 1.9111 | 1.9182 | 0.0279 | 0.0809  | 0.0209 | -0.0215 | -0.0006 | 1.0304  | -0.0227 | 0.0396 |
|                                | 4 | 8  | 10 | 1 | 1.7269 | 1.7337 | 0.0443 | 0.1033  | 0.0331 | -0.0404 | -0.0073 | 1.2204  | -0.1649 | 0.0826 |
|                                | 4 | 8  | 17 | 1 | 1.6951 | 1.7012 | 0.0479 | 0.1060  | 0.0358 | -0.0450 | -0.0093 | 1.2592  | -0.1938 | 0.0925 |
| W <sub>6</sub> S <sub>20</sub> | 7 | 8  | 15 | 1 | 1.4762 | 1.4770 | 0.0825 | 0.0780  | 0.0578 | -0.0962 | -0.0383 | 1.6629  | -0.4651 | 0.1874 |
|                                | 1 | 82 | 2  | 8 | 2.3283 | 2.3284 | 0.0618 | 0.2146  | 0.0635 | -0.0733 | -0.0098 | 1.1550  | -0.1593 | 0.2443 |
|                                | 1 | 82 | 3  | 8 | 2.3601 | 2.3610 | 0.0579 | 0.1969  | 0.0577 | -0.0662 | -0.0085 | 1.1468  | -0.1463 | 0.2326 |
|                                | 1 | 82 | 6  | 8 | 2.3541 | 2.3548 | 0.0583 | 0.2010  | 0.0586 | -0.0670 | -0.0084 | 1.1431  | -0.1440 | 0.2289 |
|                                | 2 | 8  | 8  | 1 | 1.0356 | 1.0361 | 0.2921 | -1.8439 | 0.0620 | -0.5849 | -0.5229 | 9.4409  | -1.7901 | 0.5828 |
|                                | 2 | 8  | 9  | 1 | 0.9734 | 0.9737 | 0.3610 | -2.5622 | 0.0986 | -0.8377 | -0.7391 | 8.4988  | -2.0472 | 0.7183 |
|                                | 3 | 8  | 10 | 1 | 0.9744 | 0.9756 | 0.3593 | -2.5950 | 0.0889 | -0.8265 | -0.7376 | 9.3006  | -2.0530 | 0.7104 |
|                                | 3 | 8  | 11 | 1 | 1.0050 | 1.0065 | 0.3250 | -2.2481 | 0.0665 | -0.6950 | -0.6285 | 10.4506 | -1.9337 | 0.6400 |
|                                | 4 | 8  | 12 | 1 | 0.9719 | 0.9732 | 0.3654 | -2.5754 | 0.1071 | -0.8580 | -0.7510 | 8.0122  | -2.0549 | 0.7371 |
|                                | 4 | 8  | 13 | 1 | 0.9719 | 0.9732 | 0.3654 | -2.5754 | 0.1070 | -0.8578 | -0.7508 | 8.0186  | -2.0548 | 0.7369 |
| W <sub>6</sub> S <sub>20</sub> | 5 | 8  | 14 | 1 | 0.9741 | 0.9748 | 0.3635 | -2.5113 | 0.1131 | -0.8541 | -0.7410 | 7.5499  | -2.0382 | 0.7352 |
|                                | 5 | 8  | 15 | 1 | 1.0285 | 1.0289 | 0.3018 | -1.9688 | 0.0617 | -0.6156 | -0.5539 | 9.9744  | -1.8355 | 0.5948 |
|                                | 6 | 8  | 16 | 1 | 1.0034 | 1.0048 | 0.3263 | -2.2760 | 0.0646 | -0.6983 | -0.6336 | 10.8040 | -1.9421 | 0.6402 |
|                                | 6 | 8  | 17 | 1 | 0.9739 | 0.9749 | 0.3594 | -2.6056 | 0.0873 | -0.8260 | -0.7387 | 9.4634  | -2.0555 | 0.7083 |
|                                | 7 | 8  | 18 | 1 | 0.9974 | 0.9990 | 0.3356 | -2.3285 | 0.0772 | -0.7365 | -0.6593 | 9.5430  | -1.9648 | 0.6643 |
|                                | 7 | 8  | 19 | 1 | 0.9739 | 0.9750 | 0.3619 | -2.5832 | 0.0971 | -0.8399 | -0.7429 | 8.6531  | -2.0529 | 0.7207 |
|                                | 4 | 8  | 15 | 1 | 1.5584 | 1.5592 | 0.0658 | 0.1075  | 0.0487 | -0.0706 | -0.0219 | 1.4487  | -0.3321 | 0.1412 |
|                                | 5 | 8  | 8  | 1 | 1.5595 | 1.5605 | 0.0682 | 0.0916  | 0.0479 | -0.0730 | -0.0250 | 1.5223  | -0.3672 | 0.1546 |
|                                | 5 | 8  | 18 | 1 | 1.7877 | 1.7967 | 0.0387 | 0.0967  | 0.0288 | -0.0335 | -0.0046 | 1.1610  | -0.1200 | 0.0686 |
|                                | 7 | 8  | 11 | 1 | 1.7092 | 1.7183 | 0.0465 | 0.1061  | 0.0350 | -0.0434 | -0.0084 | 1.2416  | -0.1816 | 0.0885 |
| W <sub>6</sub> S <sub>20</sub> | 7 | 8  | 16 | 1 | 1.7114 | 1.7214 | 0.0460 | 0.1073  | 0.0348 | -0.0428 | -0.0080 | 1.2297  | -0.1740 | 0.0856 |
|                                | 1 | 82 | 3  | 8 | 2.1421 | 2.1425 | 0.0966 | 0.3420  | 0.1154 | -0.1453 | -0.0299 | 1.2592  | -0.3096 | 0.4684 |
|                                | 1 | 82 | 7  | 8 | 2.3391 | 2.3392 | 0.0596 | 0.2118  | 0.0614 | -0.0699 | -0.0085 | 1.1380  | -0.1422 | 0.2231 |
|                                | 2 | 8  | 8  | 1 | 1.0618 | 1.0626 | 0.2679 | -1.6004 | 0.0529 | -0.5060 | -0.4531 | 9.5566  | -1.6911 | 0.5299 |
|                                | 2 | 8  | 9  | 1 | 1.0106 | 1.0120 | 0.3198 | -2.2087 | 0.0613 | -0.6748 | -0.6135 | 11.0078 | -1.9183 | 0.6205 |
|                                | 2 | 8  | 10 | 1 | 1.0236 | 1.0249 | 0.3054 | -2.0477 | 0.0565 | -0.6249 | -0.5684 | 11.0641 | -1.8609 | 0.5959 |
|                                | 3 | 8  | 11 | 1 | 0.9757 | 0.9766 | 0.3595 | -2.3934 | 0.1229 | -0.8442 | -0.7213 | 6.8672  | -2.0065 | 0.7449 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
|                                | 4 | 8  | 12 | 1 | 0.9717 | 0.9731 | 0.3646 | -2.6192 | 0.0978 | -0.8504 | -0.7526 | 8.6961  | -2.0640 | 0.7268 |
|                                | 4 | 8  | 13 | 1 | 0.9724 | 0.9738 | 0.3639 | -2.6170 | 0.0963 | -0.8469 | -0.7506 | 8.7926  | -2.0627 | 0.7251 |
|                                | 5 | 8  | 14 | 1 | 0.9717 | 0.9730 | 0.3656 | -2.5786 | 0.1069 | -0.8584 | -0.7515 | 8.0326  | -2.0558 | 0.7367 |
|                                | 5 | 8  | 15 | 1 | 0.9720 | 0.9733 | 0.3652 | -2.5771 | 0.1062 | -0.8566 | -0.7504 | 8.0693  | -2.0550 | 0.7361 |
|                                | 6 | 8  | 16 | 1 | 1.0303 | 1.0309 | 0.3003 | -1.9487 | 0.0618 | -0.6108 | -0.5490 | 9.8830  | -1.8283 | 0.592  |
|                                | 6 | 8  | 17 | 1 | 0.9743 | 0.9750 | 0.3632 | -2.5130 | 0.1121 | -0.8524 | -0.7403 | 7.6065  | -2.0382 | 0.7337 |
|                                | 7 | 8  | 19 | 1 | 0.9736 | 0.9741 | 0.3617 | -2.5656 | 0.0996 | -0.8405 | -0.7409 | 8.4426  | -2.0486 | 0.6021 |
|                                | 7 | 8  | 18 | 1 | 1.0242 | 1.0248 | 0.3037 | -1.9928 | 0.0618 | -0.6217 | -0.5600 | 10.0668 | -1.8440 | 0.7212 |
|                                | 3 | 8  | 10 | 1 | 1.5910 | 1.5940 | 0.0612 | 0.1033  | 0.0445 | -0.0632 | -0.0187 | 1.4199  | -0.3054 | 0.1270 |
|                                | 4 | 8  | 8  | 1 | 1.4385 | 1.4402 | 0.0896 | 0.0613  | 0.0617 | -0.1081 | -0.0464 | 1.7515  | -0.5177 | 0.2071 |
|                                | 5 | 8  | 16 | 1 | 1.5547 | 1.5558 | 0.0665 | 0.1068  | 0.0491 | -0.0715 | -0.0224 | 1.4563  | -0.3372 | 0.1431 |
|                                | 6 | 8  | 9  | 1 | 1.6639 | 1.6689 | 0.0522 | 0.1039  | 0.0382 | -0.0505 | -0.0123 | 1.3209  | -0.2352 | 0.1074 |
|                                | 6 | 8  | 18 | 1 | 1.6114 | 1.6118 | 0.0598 | 0.0968  | 0.0424 | -0.0605 | -0.0182 | 1.4287  | -0.3039 | 0.1301 |
| W <sub>7</sub> S <sub>1</sub>  | 1 | 82 | 2  | 8 | 2.3524 | 2.3524 | 0.0581 | 0.2026  | 0.0588 | -0.0670 | -0.0082 | 1.1389  | -0.1405 | 0.2357 |
|                                | 1 | 82 | 3  | 8 | 2.3365 | 2.3369 | 0.0610 | 0.2088  | 0.0620 | -0.0717 | -0.0098 | 1.1575  | -0.1599 | 0.2548 |
|                                | 1 | 82 | 6  | 8 | 2.5386 | 2.5402 | 0.0394 | 0.1297  | 0.0347 | -0.0370 | -0.0023 | 1.0657  | -0.0579 | 0.1627 |
|                                | 1 | 82 | 7  | 8 | 2.4989 | 2.5001 | 0.0426 | 0.1429  | 0.0387 | -0.0417 | -0.0030 | 1.0771  | -0.0701 | 0.1720 |
|                                | 2 | 8  | 9  | 1 | 0.9919 | 0.9929 | 0.3384 | -2.3953 | 0.0727 | -0.7443 | -0.6715 | 10.2348 | -1.9842 | 0.6619 |
|                                | 2 | 8  | 10 | 1 | 0.9929 | 0.9939 | 0.3373 | -2.3850 | 0.0718 | -0.7399 | -0.6681 | 10.3045 | -1.9805 | 0.6595 |
|                                | 3 | 8  | 11 | 1 | 0.9728 | 0.9737 | 0.3632 | -2.5427 | 0.1070 | -0.8497 | -0.7427 | 7.9390  | -2.0450 | 0.7293 |
|                                | 3 | 8  | 12 | 1 | 1.0317 | 1.0322 | 0.2958 | -1.9092 | 0.0589 | -0.5952 | -0.5362 | 10.1007 | -1.8126 | 0.5853 |
|                                | 4 | 8  | 13 | 1 | 0.9727 | 0.9741 | 0.3648 | -2.5669 | 0.1070 | -0.8556 | -0.7487 | 8.0001  | -2.0523 | 0.7369 |
|                                | 4 | 8  | 14 | 1 | 0.9725 | 0.9739 | 0.3649 | -2.5717 | 0.1064 | -0.8557 | -0.7493 | 8.0421  | -2.0535 | 0.7365 |
|                                | 5 | 8  | 15 | 1 | 0.9741 | 0.9753 | 0.3633 | -2.5623 | 0.1040 | -0.8486 | -0.7446 | 8.1584  | -2.0496 | 0.7319 |
|                                | 5 | 8  | 16 | 1 | 0.9747 | 0.9759 | 0.3626 | -2.5555 | 0.1036 | -0.8461 | -0.7425 | 8.1676  | -2.0474 | 0.7314 |
|                                | 6 | 8  | 17 | 1 | 0.9732 | 0.9743 | 0.3631 | -2.5431 | 0.1069 | -0.8495 | -0.7427 | 7.9493  | -2.0451 | 0.7316 |
|                                | 6 | 8  | 18 | 1 | 0.9907 | 0.9921 | 0.3426 | -2.3930 | 0.0827 | -0.7637 | -0.6810 | 9.2302  | -1.9879 | 0.6816 |
|                                | 7 | 8  | 19 | 1 | 0.9722 | 0.9733 | 0.3636 | -2.5655 | 0.1043 | -0.8501 | -0.7457 | 8.1467  | -2.0507 | 0.7291 |
|                                | 7 | 8  | 20 | 1 | 0.9893 | 0.9907 | 0.3435 | -2.4147 | 0.0814 | -0.7664 | -0.6850 | 9.4188  | -1.9941 | 0.6813 |
|                                | 8 | 8  | 21 | 1 | 0.9742 | 0.9754 | 0.3631 | -2.5620 | 0.1037 | -0.8478 | -0.7442 | 8.1791  | -2.0494 | 0.7314 |
|                                | 8 | 8  | 22 | 1 | 0.9744 | 0.9756 | 0.3629 | -2.5601 | 0.1035 | -0.8470 | -0.7435 | 8.1835  | -2.0487 | 0.7313 |
|                                | 4 | 8  | 12 | 1 | 1.5351 | 1.5359 | 0.0701 | 0.1009  | 0.0510 | -0.0769 | -0.0258 | 1.5058  | -0.3683 | 0.1515 |
|                                | 5 | 8  | 10 | 1 | 1.7744 | 1.7811 | 0.0385 | 0.0996  | 0.0292 | -0.0336 | -0.0043 | 1.1480  | -0.1122 | 0.0647 |
| W <sub>7</sub> S <sub>17</sub> | 5 | 8  | 20 | 1 | 1.8338 | 1.8439 | 0.0336 | 0.0928  | 0.0255 | -0.0278 | -0.0023 | 1.0899  | -0.0683 | 0.0513 |
|                                | 8 | 8  | 9  | 1 | 1.7840 | 1.7912 | 0.0376 | 0.0987  | 0.0286 | -0.0325 | -0.0039 | 1.1369  | -0.1040 | 0.0623 |
|                                | 8 | 8  | 18 | 1 | 1.8262 | 1.8353 | 0.0343 | 0.0934  | 0.0260 | -0.0285 | -0.0026 | 1.1000  | -0.0757 | 0.0532 |
|                                | 1 | 82 | 5  | 8 | 2.2971 | 2.2973 | 0.0664 | 0.2328  | 0.0701 | -0.0819 | -0.0119 | 1.1694  | -0.1787 | 0.2649 |
|                                | 1 | 82 | 6  | 8 | 2.3710 | 2.3718 | 0.0564 | 0.1921  | 0.0558 | -0.0636 | -0.0078 | 1.1397  | -0.1383 | 0.2270 |
|                                | 1 | 82 | 7  | 8 | 2.3457 | 2.3463 | 0.0595 | 0.2048  | 0.0602 | -0.0692 | -0.0090 | 1.1493  | -0.1510 | 0.2344 |
|                                | 2 | 8  | 9  | 1 | 0.9728 | 0.9735 | 0.3650 | -2.5137 | 0.1162 | -0.8608 | -0.7446 | 7.4075  | -2.0403 | 0.7398 |
|                                | 2 | 8  | 10 | 1 | 1.0187 | 1.0196 | 0.3120 | -2.0822 | 0.0651 | -0.6507 | -0.5856 | 9.9978  | -1.8770 | 0.6152 |
|                                | 3 | 8  | 11 | 1 | 0.9716 | 0.9729 | 0.3660 | -2.5633 | 0.1106 | -0.8620 | -0.7514 | 7.7950  | -2.0528 | 0.7414 |
|                                | 3 | 8  | 12 | 1 | 0.9714 | 0.9728 | 0.3662 | -2.5649 | 0.1107 | -0.8625 | -0.7519 | 7.7947  | -2.0533 | 0.7412 |
|                                | 4 | 8  | 13 | 1 | 0.9960 | 0.9976 | 0.3365 | -2.3374 | 0.0778 | -0.7399 | -0.6621 | 9.5156  | -1.9679 | 0.6654 |
|                                | 4 | 8  | 14 | 1 | 0.9712 | 0.9726 | 0.3656 | -2.5781 | 0.1070 | -0.8586 | -0.7516 | 8.0213  | -2.0557 | 0.7341 |
|                                | 5 | 8  | 15 | 1 | 0.9732 | 0.9735 | 0.3613 | -2.5428 | 0.1024 | -0.8405 | -0.7381 | 8.2071  | -2.0430 | 0.7199 |
|                                | 5 | 8  | 16 | 1 | 1.0616 | 1.0619 | 0.2680 | -1.5392 | 0.0634 | -0.5116 | -0.4482 | 8.0717  | -1.6722 | 0.5325 |
|                                | 6 | 8  | 17 | 1 | 0.9738 | 0.9750 | 0.3605 | -2.5818 | 0.0940 | -0.8335 | -0.7395 | 8.8664  | -2.0512 | 0.7158 |
|                                | 6 | 8  | 18 | 1 | 1.0069 | 1.0082 | 0.3230 | -2.2193 | 0.0668 | -0.6883 | -0.6216 | 10.3116 | -1.9243 | 0.6370 |
|                                | 7 | 8  | 19 | 1 | 1.0116 | 1.0129 | 0.3175 | -2.1590 | 0.0644 | -0.6686 | -0.6042 | 10.3755 | -1.9030 | 0.6252 |
|                                | 7 | 8  | 20 | 1 | 0.9734 | 0.9744 | 0.3609 | -2.5906 | 0.0934 | -0.8345 | -0.7411 | 8.9307  | -2.0536 | 0.7142 |
|                                | 8 | 8  | 21 | 1 | 0.9735 | 0.9744 | 0.3632 | -2.5458 | 0.1064 | -0.8493 | -0.7429 | 7.9796  | -2.0457 | 0.7290 |
|                                | 8 | 8  | 22 | 1 | 1.0164 | 1.0174 | 0.3144 | -2.0980 | 0.0677 | -0.6599 | -0.5922 | 9.7471  | -1.8836 | 0.6208 |
| W <sub>7</sub> S <sub>18</sub> | 2 | 8  | 13 | 1 | 1.7689 | 1.7734 | 0.0401 | 0.0977  | 0.0298 | -0.0351 | -0.0053 | 1.1790  | -0.1330 | 0.0715 |
|                                | 2 | 8  | 22 | 1 | 1.6402 | 1.6429 | 0.0554 | 0.1038  | 0.0404 | -0.0548 | -0.0144 | 1.3575  | -0.2608 | 0.1159 |
|                                | 3 | 8  | 10 | 1 | 1.6008 | 1.6020 | 0.0588 | 0.1125  | 0.0443 | -0.0605 | -0.0162 | 1.3652  | -0.2750 | 0.1203 |
|                                | 4 | 8  | 16 | 1 | 1.4446 | 1.4459 | 0.0900 | 0.0597  | 0.0619 | -0.1089 | -0.0470 | 1.7588  | -0.5216 | 0.2074 |
|                                | 8 | 8  | 18 | 1 | 1.6912 | 1.6973 | 0.0486 | 0.1063  | 0.0363 | -0.0460 | -0.0097 | 1.2677  | -0.1999 | 0.0941 |
|                                | 8 | 8  | 19 | 1 | 1.6572 | 1.6638 | 0.0530 | 0.1071  | 0.0393 | -0.0518 | -0.0125 | 1.3186  | -0.2364 | 0.1068 |
|                                | 1 | 82 | 2  | 8 | 2.6611 | 2.6622 | 0.0302 | 0.0986  | 0.0248 | -0.0250 | -0.0002 | 1.0070  | -0.0058 | 0.0070 |
|                                | 1 | 82 | 3  | 8 | 2.6577 | 2.6585 | 0.0304 | 0.0992  | 0.0250 | -0.0252 | -0.0002 | 1.0086  | -0.0071 | 0.0001 |
|                                | 1 | 82 | 4  | 8 | 2.6907 | 2.6917 | 0.0283 | 0.0921  | 0.0229 | -0.0228 | 0.0001  | 0.9942  | 0.0047  | 0.4736 |
|                                | 1 | 82 | 5  | 8 | 2.6306 | 2.6319 | 0.0319 | 0.1055  | 0.0268 | -0.0272 | -0.0004 | 1.0163  | -0.0137 | 0.0002 |
|                                | 1 | 82 | 6  | 8 | 2.6353 | 2.6363 | 0.0316 | 0.1043  | 0.0265 | -0.0269 | -0.0004 | 1.0148  | -0.0124 | 0.0001 |
|                                | 1 | 82 | 7  | 8 | 2.6497 | 2.6510 | 0.0310 | 0.1008  | 0.0256 | -0.0259 | -0.0004 | 1.0141  | -0.0116 | 0.0098 |
|                                | 1 | 82 | 8  | 8 | 2.6318 | 2.6327 | 0.0320 | 0.1048  | 0.0268 | -0.0273 | -0.0005 | 1.0205  | -0.0171 | 0.2439 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>7</sub> S <sub>19</sub> | 2 | 8  | 9  | 1 | 0.9731 | 0.9744 | 0.3642 | -2.5449 | 0.1092 | -0.8547 | -0.7454 | 7.8255  | -2.0466 | 0.5486 |
|                                | 2 | 8  | 10 | 1 | 0.9731 | 0.9743 | 0.3640 | -2.5432 | 0.1088 | -0.8535 | -0.7446 | 7.8419  | -2.0459 | 0.5923 |
|                                | 3 | 8  | 11 | 1 | 0.9731 | 0.9744 | 0.3642 | -2.5469 | 0.1089 | -0.8545 | -0.7456 | 7.8483  | -2.0471 | 0.7425 |
|                                | 3 | 8  | 12 | 1 | 0.9729 | 0.9741 | 0.3641 | -2.5430 | 0.1093 | -0.8543 | -0.7450 | 7.8187  | -2.0461 | 0.7424 |
|                                | 4 | 8  | 13 | 1 | 0.9731 | 0.9743 | 0.3641 | -2.5374 | 0.1101 | -0.8545 | -0.7444 | 7.7642  | -2.0447 | 0.1263 |
|                                | 4 | 8  | 14 | 1 | 0.9735 | 0.9748 | 0.3641 | -2.5417 | 0.1093 | -0.8541 | -0.7447 | 7.8124  | -2.0457 | 0.7458 |
|                                | 5 | 8  | 15 | 1 | 0.9737 | 0.9751 | 0.3637 | -2.5527 | 0.1066 | -0.8513 | -0.7447 | 7.9886  | -2.0478 | 0.7319 |
|                                | 5 | 8  | 16 | 1 | 0.9730 | 0.9742 | 0.3638 | -2.5450 | 0.1081 | -0.8524 | -0.7443 | 7.8862  | -2.0462 | 0.7301 |
|                                | 6 | 8  | 17 | 1 | 0.9730 | 0.9744 | 0.3643 | -2.5523 | 0.1081 | -0.8543 | -0.7462 | 7.9011  | -2.0484 | 0.7417 |
|                                | 6 | 8  | 18 | 1 | 0.9728 | 0.9740 | 0.3642 | -2.5489 | 0.1084 | -0.8540 | -0.7456 | 7.8803  | -2.0475 | 0.7417 |
|                                | 7 | 8  | 19 | 1 | 0.9731 | 0.9744 | 0.3640 | -2.5445 | 0.1086 | -0.8534 | -0.7448 | 7.8561  | -2.0462 | 0.6139 |
|                                | 7 | 8  | 20 | 1 | 0.9734 | 0.9748 | 0.3639 | -2.5435 | 0.1088 | -0.8534 | -0.7446 | 7.8463  | -2.0460 | 0.6157 |
|                                | 8 | 8  | 21 | 1 | 0.9730 | 0.9743 | 0.3643 | -2.5538 | 0.1080 | -0.8545 | -0.7465 | 7.9109  | -2.0488 | 0.5544 |
|                                | 8 | 8  | 22 | 1 | 0.9730 | 0.9741 | 0.3639 | -2.5477 | 0.1080 | -0.8530 | -0.7450 | 7.8954  | -2.0469 | 0.7258 |
|                                | 1 | 82 | 4  | 8 | 2.1402 | 2.1405 | 0.0970 | 0.3439  | 0.1161 | -0.1462 | -0.0301 | 1.2594  | -0.3105 | 0.4736 |
|                                | 1 | 82 | 8  | 8 | 2.3162 | 2.3163 | 0.0631 | 0.2237  | 0.0660 | -0.0761 | -0.0101 | 1.1524  | -0.1595 | 0.2439 |
|                                | 2 | 8  | 9  | 1 | 1.0478 | 1.0487 | 0.2806 | -1.7635 | 0.0513 | -0.5435 | -0.4922 | 10.5937 | -1.7543 | 0.5486 |
|                                | 2 | 8  | 10 | 1 | 1.0263 | 1.0276 | 0.3036 | -2.0018 | 0.0600 | -0.6205 | -0.5605 | 10.3387 | -1.8464 | 0.5923 |
|                                | 2 | 8  | 13 | 1 | 1.0228 | 1.0242 | 0.3064 | -2.0527 | 0.0578 | -0.6288 | -0.5710 | 10.8798 | -1.8633 | 0.5976 |
|                                | 3 | 8  | 11 | 1 | 0.9710 | 0.9723 | 0.3666 | -2.5642 | 0.1118 | -0.8647 | -0.7529 | 7.7318  | -2.0536 | 0.7425 |
|                                | 3 | 8  | 12 | 1 | 0.9713 | 0.9726 | 0.3663 | -2.5618 | 0.1115 | -0.8635 | -0.7520 | 7.7437  | -2.0527 | 0.7424 |
|                                | 4 | 8  | 14 | 1 | 0.9751 | 0.9760 | 0.3601 | -2.3989 | 0.1235 | -0.8467 | -0.7232 | 6.8575  | -2.0084 | 0.7458 |
|                                | 5 | 8  | 15 | 1 | 0.9715 | 0.9728 | 0.3654 | -2.6039 | 0.1022 | -0.8554 | -0.7532 | 8.3679  | -2.0614 | 0.7319 |
|                                | 5 | 8  | 16 | 1 | 0.9722 | 0.9736 | 0.3646 | -2.6011 | 0.1008 | -0.8518 | -0.7510 | 8.4532  | -2.0599 | 0.7301 |
|                                | 6 | 8  | 17 | 1 | 0.9712 | 0.9725 | 0.3664 | -2.5647 | 0.1112 | -0.8637 | -0.7524 | 7.7636  | -2.0535 | 0.7417 |
|                                | 6 | 8  | 18 | 1 | 0.9712 | 0.9725 | 0.3663 | -2.5657 | 0.1109 | -0.8633 | -0.7523 | 7.7820  | -2.0537 | 0.7417 |
|                                | 7 | 8  | 19 | 1 | 1.0155 | 1.0162 | 0.3153 | -2.1150 | 0.0668 | -0.6624 | -0.5956 | 9.9106  | -1.8891 | 0.6139 |
|                                | 7 | 8  | 20 | 1 | 1.0138 | 1.0145 | 0.3167 | -2.1373 | 0.0663 | -0.6670 | -0.6006 | 10.0568 | -1.8964 | 0.6157 |
|                                | 8 | 8  | 21 | 1 | 1.0512 | 1.0515 | 0.2779 | -1.6500 | 0.0647 | -0.5420 | -0.4772 | 8.3733  | -1.7175 | 0.5544 |
|                                | 8 | 8  | 22 | 1 | 0.9731 | 0.9735 | 0.3625 | -2.5436 | 0.1052 | -0.8463 | -0.7411 | 8.0434  | -2.0445 | 0.7258 |
|                                | 3 | 8  | 20 | 1 | 1.6216 | 1.6230 | 0.0555 | 0.1139  | 0.0422 | -0.0559 | -0.0137 | 1.3248  | -0.2468 | 0.1119 |
|                                | 4 | 8  | 13 | 1 | 1.5909 | 1.5942 | 0.0612 | 0.1046  | 0.0447 | -0.0634 | -0.0186 | 1.4158  | -0.3038 | 0.1263 |
|                                | 5 | 8  | 9  | 1 | 1.4768 | 1.4779 | 0.0810 | 0.0830  | 0.0574 | -0.0940 | -0.0366 | 1.6382  | -0.4521 | 0.1844 |
|                                | 6 | 8  | 19 | 1 | 1.6157 | 1.6170 | 0.0564 | 0.1138  | 0.0428 | -0.0571 | -0.0143 | 1.3350  | -0.2542 | 0.1147 |
|                                | 7 | 8  | 10 | 1 | 1.5840 | 1.5881 | 0.0644 | 0.0996  | 0.0463 | -0.0676 | -0.0214 | 1.4620  | -0.3322 | 0.1425 |
|                                | 7 | 8  | 21 | 1 | 1.5059 | 1.5064 | 0.0788 | 0.0748  | 0.0541 | -0.0895 | -0.0354 | 1.6543  | -0.4488 | 0.1835 |
| W <sub>8</sub> S <sub>1</sub>  | 1 | 82 | 6  | 8 | 2.4256 | 2.4260 | 0.0502 | 0.1695  | 0.0478 | -0.0533 | -0.0055 | 1.1144  | -0.1091 | 0.2097 |
|                                | 1 | 82 | 7  | 8 | 2.4258 | 2.4261 | 0.0501 | 0.1695  | 0.0478 | -0.0532 | -0.0054 | 1.1130  | -0.1078 | 0.209  |
|                                | 1 | 82 | 8  | 8 | 2.4265 | 2.4268 | 0.0500 | 0.1692  | 0.0477 | -0.0531 | -0.0054 | 1.1136  | -0.1083 | 0.2089 |
|                                | 1 | 82 | 9  | 8 | 2.4226 | 2.4229 | 0.0505 | 0.1708  | 0.0482 | -0.0538 | -0.0056 | 1.1150  | -0.1100 | 0.2107 |
|                                | 2 | 8  | 10 | 1 | 0.9741 | 0.9753 | 0.3635 | -2.5514 | 0.1065 | -0.8508 | -0.7443 | 7.9917  | -2.0474 | 0.7347 |
|                                | 2 | 8  | 11 | 1 | 0.9737 | 0.9748 | 0.3640 | -2.5491 | 0.1081 | -0.8534 | -0.7453 | 7.8972  | -2.0474 | 0.7371 |
|                                | 3 | 8  | 12 | 1 | 0.9735 | 0.9747 | 0.3642 | -2.5510 | 0.1081 | -0.8539 | -0.7458 | 7.9014  | -2.0480 | 0.7371 |
|                                | 3 | 8  | 13 | 1 | 0.9743 | 0.9755 | 0.3634 | -2.5489 | 0.1064 | -0.8501 | -0.7437 | 7.9866  | -2.0466 | 0.7346 |
|                                | 4 | 8  | 14 | 1 | 0.9737 | 0.9748 | 0.3640 | -2.5480 | 0.1081 | -0.8532 | -0.7451 | 7.8916  | -2.0471 | 0.7371 |
|                                | 4 | 8  | 15 | 1 | 0.9743 | 0.9755 | 0.3633 | -2.5488 | 0.1064 | -0.8500 | -0.7436 | 7.9876  | -2.0466 | 0.7346 |
|                                | 5 | 8  | 16 | 1 | 0.9743 | 0.9755 | 0.3634 | -2.5488 | 0.1064 | -0.8501 | -0.7437 | 7.9865  | -2.0466 | 0.7346 |
|                                | 5 | 8  | 17 | 1 | 0.9735 | 0.9746 | 0.3642 | -2.5513 | 0.1081 | -0.8539 | -0.7459 | 7.9028  | -2.0481 | 0.7371 |
|                                | 6 | 8  | 18 | 1 | 0.9880 | 0.9895 | 0.3442 | -2.4232 | 0.0815 | -0.7688 | -0.6873 | 9.4347  | -1.9968 | 0.6799 |
|                                | 6 | 8  | 19 | 1 | 0.9881 | 0.9895 | 0.3441 | -2.4238 | 0.0812 | -0.7684 | -0.6872 | 9.4590  | -1.9969 | 0.6795 |
|                                | 7 | 8  | 20 | 1 | 0.9884 | 0.9898 | 0.3437 | -2.4199 | 0.0810 | -0.7670 | -0.6860 | 9.4696  | -1.9956 | 0.6792 |
|                                | 7 | 8  | 21 | 1 | 0.9877 | 0.9892 | 0.3444 | -2.4295 | 0.0809 | -0.7692 | -0.6883 | 9.5076  | -1.9986 | 0.6796 |
|                                | 8 | 8  | 22 | 1 | 0.9881 | 0.9896 | 0.3440 | -2.4225 | 0.0813 | -0.7682 | -0.6869 | 9.4528  | -1.9965 | 0.6796 |
|                                | 8 | 8  | 23 | 1 | 0.9878 | 0.9893 | 0.3444 | -2.4265 | 0.0815 | -0.7696 | -0.6881 | 9.4456  | -1.9979 | 0.6803 |
|                                | 9 | 8  | 24 | 1 | 0.9882 | 0.9896 | 0.3439 | -2.4241 | 0.0808 | -0.7675 | -0.6868 | 9.5045  | -1.9968 | 0.6788 |
|                                | 9 | 8  | 25 | 1 | 0.9881 | 0.9895 | 0.3440 | -2.4242 | 0.0809 | -0.7679 | -0.6870 | 9.4891  | -1.9969 | 0.6791 |
|                                | 2 | 8  | 20 | 1 | 1.8434 | 1.8538 | 0.0327 | 0.0914  | 0.0248 | -0.0268 | -0.0020 | 1.0799  | -0.0607 | 0.0497 |
|                                | 2 | 8  | 22 | 1 | 1.8429 | 1.8532 | 0.0328 | 0.0914  | 0.0249 | -0.0269 | -0.0020 | 1.0809  | -0.0614 | 0.0499 |
|                                | 3 | 8  | 23 | 1 | 1.8468 | 1.8573 | 0.0325 | 0.0909  | 0.0246 | -0.0265 | -0.0019 | 1.0773  | -0.0587 | 0.0491 |
|                                | 3 | 8  | 24 | 1 | 1.8396 | 1.8497 | 0.0330 | 0.0919  | 0.0251 | -0.0272 | -0.0021 | 1.0833  | -0.0633 | 0.0504 |
|                                | 4 | 8  | 19 | 1 | 1.8413 | 1.8515 | 0.0329 | 0.0917  | 0.0250 | -0.0270 | -0.0021 | 1.0821  | -0.0624 | 0.0501 |
|                                | 4 | 8  | 21 | 1 | 1.8445 | 1.8550 | 0.0326 | 0.0914  | 0.0248 | -0.0267 | -0.0020 | 1.0787  | -0.0598 | 0.0494 |
|                                | 5 | 8  | 18 | 1 | 1.8436 | 1.8538 | 0.0327 | 0.0914  | 0.0248 | -0.0268 | -0.0020 | 1.0801  | -0.0608 | 0.0497 |
|                                | 5 | 8  | 25 | 1 | 1.8423 | 1.8526 | 0.0328 | 0.0915  | 0.0249 | -0.0269 | -0.0020 | 1.0810  | -0.0615 | 0.0499 |
| W <sub>8</sub> S <sub>14</sub> | 1 | 82 | 2  | 8 | 2.2511 | 2.2515 | 0.0750 | 0.2563  | 0.0810 | -0.0980 | -0.0170 | 1.2092  | -0.2260 | 0.3257 |
|                                | 1 | 82 | 3  | 8 | 2.3296 | 2.3299 | 0.0616 | 0.2142  | 0.0633 | -0.0730 | -0.0097 | 1.1538  | -0.1580 | 0.2558 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>8</sub> S <sub>16</sub> | 1 | 82 | 9  | 8 | 2.3551 | 2.3552 | 0.0578 | 0.2022  | 0.0585 | -0.0664 | -0.0079 | 1.1356  | -0.1373 | 0.2341 |
|                                | 2 | 8  | 10 | 1 | 0.9724 | 0.9730 | 0.3629 | -2.4648 | 0.1194 | -0.8551 | -0.7356 | 7.1598  | -2.0269 | 0.7374 |
|                                | 2 | 8  | 11 | 1 | 1.1972 | 1.1975 | 0.1789 | -0.4736 | 0.0842 | -0.2867 | -0.2026 | 3.4066  | -1.1322 | 0.4    |
|                                | 3 | 8  | 12 | 1 | 0.9917 | 0.9924 | 0.3388 | -2.3677 | 0.0783 | -0.7484 | -0.6702 | 9.5626  | -1.9778 | 0.6671 |
|                                | 3 | 8  | 13 | 1 | 1.0156 | 1.0164 | 0.3128 | -2.1053 | 0.0630 | -0.6523 | -0.5893 | 10.3560 | -1.8839 | 0.6139 |
|                                | 4 | 8  | 14 | 1 | 0.9717 | 0.9731 | 0.3656 | -2.5790 | 0.1070 | -0.8587 | -0.7517 | 8.0259  | -2.0559 | 0.7373 |
|                                | 4 | 8  | 15 | 1 | 0.9719 | 0.9733 | 0.3655 | -2.5783 | 0.1068 | -0.8582 | -0.7514 | 8.0350  | -2.0556 | 0.7371 |
|                                | 5 | 8  | 16 | 1 | 0.9712 | 0.9726 | 0.3663 | -2.5760 | 0.1091 | -0.8623 | -0.7531 | 7.9008  | -2.0560 | 0.74   |
|                                | 5 | 8  | 17 | 1 | 0.9708 | 0.9722 | 0.3666 | -2.5771 | 0.1097 | -0.8637 | -0.7540 | 7.8726  | -2.0565 | 0.7406 |
|                                | 6 | 8  | 18 | 1 | 1.0200 | 1.0214 | 0.3080 | -2.0875 | 0.0554 | -0.6326 | -0.5773 | 11.4244 | -1.8743 | 0.5975 |
|                                | 6 | 8  | 19 | 1 | 0.9820 | 0.9837 | 0.3528 | -2.4950 | 0.0899 | -0.8036 | -0.7137 | 8.9363  | -2.0229 | 0.6959 |
|                                | 7 | 8  | 20 | 1 | 0.9714 | 0.9727 | 0.3662 | -2.5722 | 0.1095 | -0.8620 | -0.7525 | 7.8735  | -2.0550 | 0.7399 |
|                                | 7 | 8  | 21 | 1 | 0.9713 | 0.9727 | 0.3662 | -2.5719 | 0.1094 | -0.8619 | -0.7524 | 7.8750  | -2.0549 | 0.7398 |
|                                | 8 | 8  | 22 | 1 | 0.9741 | 0.9754 | 0.3640 | -2.5341 | 0.1106 | -0.8547 | -0.7441 | 7.7291  | -2.0440 | 0.7405 |
|                                | 8 | 8  | 23 | 1 | 0.9738 | 0.9751 | 0.3643 | -2.5393 | 0.1104 | -0.8556 | -0.7452 | 7.7510  | -2.0454 | 0.7402 |
|                                | 9 | 8  | 24 | 1 | 1.0293 | 1.0298 | 0.2981 | -1.9386 | 0.0588 | -0.6023 | -0.5435 | 10.2397 | -1.8232 | 0.5888 |
|                                | 9 | 8  | 25 | 1 | 0.9714 | 0.9720 | 0.3642 | -2.5528 | 0.1078 | -0.8538 | -0.7460 | 7.9209  | -2.0484 | 0.7286 |
|                                | 4 | 8  | 24 | 1 | 1.5370 | 1.5380 | 0.0695 | 0.1040  | 0.0510 | -0.0761 | -0.0250 | 1.4905  | -0.3604 | 0.148  |
|                                | 5 | 8  | 18 | 1 | 1.5706 | 1.5719 | 0.0630 | 0.1112  | 0.0472 | -0.0665 | -0.0194 | 1.4104  | -0.3074 | 0.1319 |
|                                | 6 | 8  | 11 | 1 | 1.2256 | 1.2262 | 0.1660 | -0.3653 | 0.0830 | -0.2574 | -0.1744 | 3.0998  | -1.0505 | 0.3739 |
|                                | 7 | 8  | 13 | 1 | 1.5907 | 1.5927 | 0.0600 | 0.1144  | 0.0455 | -0.0624 | -0.0169 | 1.3714  | -0.2815 | 0.1201 |
|                                | 8 | 8  | 12 | 1 | 1.8292 | 1.8307 | 0.0340 | 0.0877  | 0.0249 | -0.0278 | -0.0029 | 1.1178  | -0.0862 | 0.0572 |
|                                | 8 | 8  | 19 | 1 | 1.9224 | 1.9375 | 0.0274 | 0.0825  | 0.0209 | -0.0211 | -0.0003 | 1.0128  | -0.0098 | 0.0373 |
|                                | 1 | 82 | 2  | 8 | 2.3127 | 2.3131 | 0.0642 | 0.2223  | 0.0666 | -0.0777 | -0.0110 | 1.1658  | -0.1720 | 0.2633 |
|                                | 1 | 82 | 3  | 8 | 2.3779 | 2.3783 | 0.0544 | 0.1900  | 0.0541 | -0.0607 | -0.0066 | 1.1223  | -0.1215 | 0.2184 |
|                                | 1 | 82 | 6  | 8 | 2.4270 | 2.4284 | 0.0510 | 0.1670  | 0.0480 | -0.0542 | -0.0062 | 1.1298  | -0.1220 | 0.2179 |
|                                | 1 | 82 | 8  | 8 | 2.6315 | 2.6337 | 0.0326 | 0.1043  | 0.0269 | -0.0278 | -0.0008 | 1.0311  | -0.0257 | 0.1337 |
|                                | 2 | 8  | 10 | 1 | 0.9718 | 0.9726 | 0.3635 | -2.5588 | 0.1051 | -0.8499 | -0.7448 | 8.0874  | -2.0490 | 0.7262 |
|                                | 2 | 8  | 11 | 1 | 1.0456 | 1.0461 | 0.2826 | -1.7258 | 0.0619 | -0.5552 | -0.4933 | 8.9753  | -1.7454 | 0.5639 |
|                                | 3 | 8  | 12 | 1 | 1.0031 | 1.0040 | 0.3254 | -2.2624 | 0.0649 | -0.6954 | -0.6305 | 10.7139 | -1.9377 | 0.6261 |
|                                | 3 | 8  | 13 | 1 | 0.9727 | 0.9739 | 0.3632 | -2.5761 | 0.1015 | -0.8470 | -0.7455 | 8.3453  | -2.0527 | 0.7260 |
|                                | 4 | 8  | 14 | 1 | 0.9790 | 0.9809 | 0.3570 | -2.5039 | 0.0985 | -0.8230 | -0.7245 | 8.3535  | -2.0294 | 0.7162 |
|                                | 4 | 8  | 15 | 1 | 0.9714 | 0.9729 | 0.3655 | -2.5741 | 0.1075 | -0.8586 | -0.7511 | 7.9851  | -2.0547 | 0.7363 |
|                                | 5 | 8  | 16 | 1 | 0.9742 | 0.9754 | 0.3639 | -2.5372 | 0.1096 | -0.8535 | -0.7439 | 7.7874  | -2.0445 | 0.7390 |
|                                | 5 | 8  | 17 | 1 | 0.9743 | 0.9756 | 0.3637 | -2.5372 | 0.1091 | -0.8526 | -0.7435 | 7.8119  | -2.0443 | 0.7386 |
|                                | 6 | 8  | 18 | 1 | 1.0289 | 1.0296 | 0.3008 | -1.9331 | 0.0654 | -0.6142 | -0.5487 | 9.3843  | -1.8245 | 0.5981 |
|                                | 6 | 8  | 19 | 1 | 0.9731 | 0.9741 | 0.3633 | -2.5010 | 0.1144 | -0.8540 | -0.7396 | 7.4676  | -2.0356 | 0.7368 |
|                                | 7 | 8  | 20 | 1 | 0.9827 | 0.9846 | 0.3523 | -2.4818 | 0.0909 | -0.8022 | -0.7113 | 8.8258  | -2.0192 | 0.7012 |
|                                | 7 | 8  | 21 | 1 | 0.9711 | 0.9726 | 0.3655 | -2.5878 | 0.1053 | -0.8575 | -0.7522 | 8.1445  | -2.0579 | 0.7337 |
|                                | 8 | 8  | 22 | 1 | 0.9730 | 0.9739 | 0.3648 | -2.5011 | 0.1180 | -0.8612 | -0.7433 | 7.3001  | -2.0373 | 0.7444 |
|                                | 8 | 8  | 23 | 1 | 0.9938 | 0.9948 | 0.3391 | -2.3486 | 0.0820 | -0.7511 | -0.6691 | 9.1601  | -1.9734 | 0.6779 |
|                                | 9 | 8  | 24 | 1 | 0.9744 | 0.9757 | 0.3633 | -2.5504 | 0.1061 | -0.8499 | -0.7437 | 8.0070  | -2.0469 | 0.7351 |
|                                | 9 | 8  | 25 | 1 | 0.9740 | 0.9753 | 0.3638 | -2.5507 | 0.1072 | -0.8521 | -0.7449 | 7.9476  | -2.0475 | 0.7363 |
| W <sub>8</sub> S <sub>22</sub> | 4 | 8  | 18 | 1 | 1.5474 | 1.5490 | 0.0687 | 0.1045  | 0.0505 | -0.0748 | -0.0243 | 1.4824  | -0.3546 | 0.1471 |
|                                | 5 | 8  | 20 | 1 | 1.8998 | 1.9115 | 0.0288 | 0.0854  | 0.0220 | -0.0226 | -0.0007 | 1.0297  | -0.0227 | 0.0392 |
|                                | 5 | 8  | 23 | 1 | 1.8247 | 1.8269 | 0.0345 | 0.0888  | 0.0253 | -0.0284 | -0.0031 | 1.1226  | -0.0899 | 0.0571 |
|                                | 7 | 8  | 11 | 1 | 1.4799 | 1.4813 | 0.0818 | 0.0839  | 0.0582 | -0.0955 | -0.0373 | 1.6399  | -0.4555 | 0.1825 |
|                                | 9 | 8  | 12 | 1 | 1.7094 | 1.7105 | 0.0455 | 0.1009  | 0.0335 | -0.0417 | -0.0082 | 1.2460  | -0.1809 | 0.0867 |
|                                | 9 | 8  | 14 | 1 | 1.9736 | 1.9900 | 0.0241 | 0.0763  | 0.0185 | -0.0179 | 0.0006  | 0.9689  | 0.0239  | 0.0281 |
|                                | 1 | 82 | 2  | 8 | 2.7034 | 2.7057 | 0.0276 | 0.0889  | 0.0221 | -0.0219 | 0.0002  | 0.9930  | 0.0056  | 0.1285 |
|                                | 1 | 82 | 3  | 8 | 2.7035 | 2.7057 | 0.0276 | 0.0889  | 0.0221 | -0.0219 | 0.0002  | 0.9931  | 0.0055  | 0.1286 |
|                                | 1 | 82 | 4  | 8 | 2.7035 | 2.7057 | 0.0276 | 0.0889  | 0.0221 | -0.0219 | 0.0002  | 0.9931  | 0.0055  | 0.1286 |
|                                | 1 | 82 | 5  | 8 | 2.7039 | 2.7061 | 0.0276 | 0.0888  | 0.0220 | -0.0219 | 0.0002  | 0.9930  | 0.0056  | 0.1286 |
|                                | 1 | 82 | 6  | 8 | 2.7039 | 2.7062 | 0.0276 | 0.0888  | 0.0220 | -0.0219 | 0.0002  | 0.9928  | 0.0057  | 0.1285 |
|                                | 1 | 82 | 7  | 8 | 2.7021 | 2.7044 | 0.0277 | 0.0891  | 0.0221 | -0.0220 | 0.0001  | 0.9939  | 0.0049  | 0.1289 |
|                                | 1 | 82 | 8  | 8 | 2.7016 | 2.7039 | 0.0277 | 0.0892  | 0.0222 | -0.0220 | 0.0001  | 0.9937  | 0.0051  | 0.1288 |
|                                | 1 | 82 | 9  | 8 | 2.7011 | 2.7034 | 0.0278 | 0.0894  | 0.0222 | -0.0221 | 0.0001  | 0.9937  | 0.0051  | 0.1288 |
|                                | 2 | 8  | 10 | 1 | 0.9745 | 0.9761 | 0.3631 | -2.5426 | 0.1068 | -0.8493 | -0.7425 | 7.9492  | -2.0449 | 0.7351 |
|                                | 2 | 8  | 11 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5352 | 0.1105 | -0.8547 | -0.7443 | 7.7380  | -2.0442 | 0.7365 |
|                                | 3 | 8  | 12 | 1 | 0.9745 | 0.9761 | 0.3631 | -2.5416 | 0.1070 | -0.8493 | -0.7423 | 7.9410  | -2.0446 | 0.7352 |
|                                | 3 | 8  | 13 | 1 | 0.9731 | 0.9743 | 0.3640 | -2.5337 | 0.1106 | -0.8547 | -0.7441 | 7.7251  | -2.0439 | 0.7367 |
|                                | 4 | 8  | 14 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5349 | 0.1105 | -0.8548 | -0.7442 | 7.7341  | -2.0442 | 0.7365 |
|                                | 4 | 8  | 15 | 1 | 0.9745 | 0.9761 | 0.3631 | -2.5420 | 0.1069 | -0.8493 | -0.7424 | 7.9443  | -2.0447 | 0.7351 |
|                                | 5 | 8  | 16 | 1 | 0.9745 | 0.9761 | 0.3631 | -2.5422 | 0.1069 | -0.8493 | -0.7424 | 7.9466  | -2.0448 | 0.7351 |
|                                | 5 | 8  | 19 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5351 | 0.1105 | -0.8547 | -0.7442 | 7.7368  | -2.0442 | 0.7365 |
|                                | 6 | 8  | 17 | 1 | 0.9744 | 0.9761 | 0.3631 | -2.5424 | 0.1069 | -0.8495 | -0.7425 | 7.9443  | -2.0449 | 0.7352 |
|                                | 6 | 8  | 18 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5353 | 0.1104 | -0.8547 | -0.7443 | 7.7392  | -2.0443 | 0.7364 |

|                                |   |    |    |   |        |        |        |         |        |         |         |         |         |        |
|--------------------------------|---|----|----|---|--------|--------|--------|---------|--------|---------|---------|---------|---------|--------|
| W <sub>8</sub> S <sub>23</sub> | 7 | 8  | 20 | 1 | 0.9745 | 0.9762 | 0.3630 | -2.5418 | 0.1068 | -0.8490 | -0.7422 | 7.9504  | -2.0446 | 0.7350 |
|                                | 7 | 8  | 21 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5347 | 0.1105 | -0.8547 | -0.7442 | 7.7340  | -2.0441 | 0.7365 |
|                                | 8 | 8  | 22 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5349 | 0.1105 | -0.8547 | -0.7442 | 7.7357  | -2.0442 | 0.7365 |
|                                | 8 | 8  | 23 | 1 | 0.9745 | 0.9762 | 0.3630 | -2.5422 | 0.1067 | -0.8490 | -0.7423 | 7.9547  | -2.0447 | 0.7349 |
|                                | 9 | 8  | 24 | 1 | 0.9744 | 0.9761 | 0.3631 | -2.5432 | 0.1068 | -0.8494 | -0.7426 | 7.9535  | -2.0450 | 0.7350 |
|                                | 9 | 8  | 25 | 1 | 0.9730 | 0.9743 | 0.3641 | -2.5352 | 0.1105 | -0.8548 | -0.7443 | 7.7365  | -2.0443 | 0.7365 |
|                                | 2 | 8  | 23 | 1 | 2.9045 | 3.1343 | 0.0112 | 0.0473  | 0.0095 | -0.0072 | 0.0023  | 0.7557  | 0.2065  | 0.0037 |
|                                | 3 | 8  | 15 | 1 | 2.9069 | 3.1355 | 0.0112 | 0.0470  | 0.0094 | -0.0071 | 0.0023  | 0.7548  | 0.2072  | 0.0037 |
|                                | 4 | 8  | 17 | 1 | 2.9114 | 3.1369 | 0.0111 | 0.0466  | 0.0093 | -0.0070 | 0.0023  | 0.7534  | 0.2081  | 0.0036 |
|                                | 5 | 8  | 10 | 1 | 2.9081 | 3.1392 | 0.0112 | 0.0470  | 0.0094 | -0.0071 | 0.0023  | 0.7549  | 0.2069  | 0.0037 |
|                                | 6 | 8  | 24 | 1 | 2.9078 | 3.1360 | 0.0112 | 0.0469  | 0.0094 | -0.0071 | 0.0023  | 0.7546  | 0.2073  | 0.0037 |
|                                | 7 | 8  | 16 | 1 | 2.9062 | 3.1347 | 0.0112 | 0.0471  | 0.0095 | -0.0071 | 0.0023  | 0.7550  | 0.2071  | 0.0037 |
|                                | 8 | 8  | 20 | 1 | 2.9028 | 3.1325 | 0.0113 | 0.0475  | 0.0095 | -0.0072 | 0.0023  | 0.7564  | 0.2060  | 0.0038 |
|                                | 9 | 8  | 12 | 1 | 2.9050 | 3.1257 | 0.0112 | 0.0472  | 0.0095 | -0.0071 | 0.0023  | 0.7548  | 0.2074  | 0.0037 |
|                                | 1 | 82 | 2  | 8 | 2.1946 | 2.1949 | 0.0852 | 0.2990  | 0.0972 | -0.1197 | -0.0225 | 1.2311  | -0.2636 | 0.3929 |
|                                | 1 | 82 | 3  | 8 | 2.1951 | 2.1953 | 0.0851 | 0.2986  | 0.0971 | -0.1195 | -0.0224 | 1.2309  | -0.2632 | 0.3923 |
|                                | 2 | 8  | 10 | 1 | 0.9742 | 0.9750 | 0.3624 | -2.3989 | 0.1290 | -0.8577 | -0.7287 | 6.6486  | -2.0110 | 0.7492 |
|                                | 3 | 8  | 13 | 1 | 0.9742 | 0.9750 | 0.3624 | -2.3998 | 0.1290 | -0.8579 | -0.7289 | 6.6512  | -2.0113 | 0.7491 |
|                                | 4 | 8  | 14 | 1 | 0.9704 | 0.9718 | 0.3660 | -2.5954 | 0.1051 | -0.8591 | -0.7540 | 8.1734  | -2.0601 | 0.7331 |
|                                | 4 | 8  | 15 | 1 | 0.9811 | 0.9826 | 0.3532 | -2.5011 | 0.0898 | -0.8049 | -0.7151 | 8.9612  | -2.0247 | 0.7008 |
|                                | 5 | 8  | 16 | 1 | 0.9812 | 0.9827 | 0.3531 | -2.5011 | 0.0897 | -0.8046 | -0.7150 | 8.9722  | -2.0247 | 0.7005 |
|                                | 5 | 8  | 17 | 1 | 0.9706 | 0.9720 | 0.3658 | -2.5924 | 0.1052 | -0.8584 | -0.7532 | 8.1630  | -2.0592 | 0.7331 |
|                                | 6 | 8  | 11 | 1 | 1.0918 | 1.0921 | 0.2444 | -1.2385 | 0.0678 | -0.4452 | -0.3774 | 6.5662  | -1.5446 | 0.4994 |
|                                | 6 | 8  | 18 | 1 | 1.0361 | 1.0370 | 0.2917 | -1.8958 | 0.0524 | -0.5789 | -0.5264 | 11.0365 | -1.8045 | 0.5673 |
|                                | 6 | 8  | 19 | 1 | 0.9968 | 0.9982 | 0.3340 | -2.3747 | 0.0658 | -0.7253 | -0.6595 | 11.0192 | -1.9747 | 0.6471 |
|                                | 7 | 8  | 20 | 1 | 0.9749 | 0.9761 | 0.3629 | -2.5385 | 0.1071 | -0.8488 | -0.7417 | 7.9277  | -2.0438 | 0.7357 |
|                                | 7 | 8  | 21 | 1 | 0.9744 | 0.9756 | 0.3634 | -2.5463 | 0.1070 | -0.8506 | -0.7436 | 7.9492  | -2.0461 | 0.7357 |
|                                | 8 | 8  | 22 | 1 | 0.9746 | 0.9758 | 0.3632 | -2.5424 | 0.1070 | -0.8496 | -0.7426 | 7.9404  | -2.0449 | 0.7357 |
|                                | 8 | 8  | 23 | 1 | 0.9745 | 0.9757 | 0.3633 | -2.5445 | 0.1071 | -0.8503 | -0.7432 | 7.9409  | -2.0456 | 0.7357 |
|                                | 9 | 8  | 12 | 1 | 1.0928 | 1.0930 | 0.2437 | -1.2295 | 0.0680 | -0.4434 | -0.3754 | 6.5189  | -1.5406 | 0.4984 |
|                                | 9 | 8  | 24 | 1 | 1.0357 | 1.0367 | 0.2921 | -1.9010 | 0.0523 | -0.5799 | -0.5276 | 11.0787 | -1.8063 | 0.5677 |
|                                | 9 | 8  | 25 | 1 | 0.9965 | 0.9979 | 0.3343 | -2.3789 | 0.0659 | -0.7265 | -0.6606 | 11.0277 | -1.9760 | 0.6475 |
|                                | 2 | 8  | 11 | 1 | 1.3784 | 1.3791 | 0.1075 | -0.0008 | 0.0697 | -0.1396 | -0.0699 | 2.0030  | -0.6500 | 0.2486 |
|                                | 3 | 8  | 12 | 1 | 1.3766 | 1.3774 | 0.1080 | -0.0029 | 0.0699 | -0.1405 | -0.0706 | 2.0102  | -0.6536 | 0.2498 |
|                                | 4 | 8  | 24 | 1 | 1.4994 | 1.5001 | 0.0759 | 0.0984  | 0.0554 | -0.0863 | -0.0308 | 1.5563  | -0.4065 | 0.1671 |
|                                | 5 | 8  | 18 | 1 | 1.4989 | 1.4996 | 0.0760 | 0.0979  | 0.0555 | -0.0865 | -0.0310 | 1.5589  | -0.4080 | 0.1677 |
|                                | 7 | 8  | 15 | 1 | 1.9086 | 1.9139 | 0.0279 | 0.0816  | 0.0210 | -0.0216 | -0.0006 | 1.0276  | -0.0207 | 0.0381 |
|                                | 7 | 8  | 19 | 1 | 1.7514 | 1.7526 | 0.0412 | 0.0970  | 0.0302 | -0.0362 | -0.0060 | 1.1985  | -0.1459 | 0.0773 |
|                                | 8 | 8  | 16 | 1 | 1.9070 | 1.9122 | 0.0280 | 0.0818  | 0.0211 | -0.0217 | -0.0006 | 1.0290  | -0.0218 | 0.0384 |
|                                | 8 | 8  | 25 | 1 | 1.7524 | 1.7537 | 0.0410 | 0.0970  | 0.0302 | -0.0361 | -0.0059 | 1.1966  | -0.1446 | 0.0768 |

Table S7 Second-order perturbation energies,  $E(2)$ , in kcal/mol, between various donor and acceptor NBOs for the SO-ZORA equilibrium structures of all the clusters using the methodology SR-ZORA/PBE. The NBOs considered, they are LP( $\text{Pb}^{2+}$ ,O), LV(Pb), BD(O-H) and BD\*(O-H) with  $E(2) > 0.1$  kcal/mol. Additionally, the NBOs of the intermolecular interactions between LP( $\text{Pb}^{2+}$ ) with BD\*(O-H) are included, regardless of the  $E(2)$  value.

|          | Donor<br>NBO               | Acceptor<br>NBO             | $E(2)$<br>[kcal/mol] |
|----------|----------------------------|-----------------------------|----------------------|
| $W_1S_1$ | 41LP( $\text{Pb}^{2+}$ )   | 49BD*(O2H3)                 | 0.45                 |
|          | 41LP( $\text{Pb}^{2+}$ )   | 50BD*(O2H4)                 | 0.45                 |
|          | 42LP(O2)                   | 47LV( $\text{Pb}^{2+}$ )    | 4.11                 |
|          | 43LP(O2)                   | 46LV( $\text{Pb}^{2+}$ )    | 14.34                |
|          | 44BD(O2H3)                 | 46LV( $\text{Pb}^{2+}$ )    | 2.85                 |
|          | 45BD(O2H4)                 | 46LV( $\text{Pb}^{2+}$ )    | 2.85                 |
| $W_2S_1$ | 42LP( $\text{Pb}^{2+}$ )   | 54BD*(O2H4)                 | 0.28                 |
|          | 42LP( $\text{Pb}^{2+}$ )   | 55BD*(O2H5)                 | 0.54                 |
|          | 42LP( $\text{Pb}^{2+}$ )   | 56BD*(O3H6)                 | 0.54                 |
|          | 42LP( $\text{Pb}^{2+}$ )   | 57BD*(O3H7)                 | 0.28                 |
|          | 43LP(O2)                   | 53LV( $\text{Pb}^{2+}$ )    | 1.77                 |
|          | 44LP(O2)                   | 51LV( $\text{Pb}^{2+}$ )    | 10.2                 |
|          | 44LP(O2)                   | 52LV( $\text{Pb}^{2+}$ )    | 8.58                 |
|          | 44LP(O2)                   | 53LV( $\text{Pb}^{2+}$ )    | 1.08                 |
|          | 45LP(O3)                   | 53LV( $\text{Pb}^{2+}$ )    | 1.77                 |
|          | 46LP(O3)                   | 51LV( $\text{Pb}^{2+}$ )    | 10.2                 |
|          | 46LP(O3)                   | 52LV( $\text{Pb}^{2+}$ )    | 8.58                 |
|          | 46LP(O3)                   | 53LV( $\text{Pb}^{2+}$ )    | 1.08                 |
| $W_2S_2$ | 42LP( $\text{Pb}^{2+}$ )   | 55BD*(O3H5)                 | 0.23                 |
|          | 44LP(O2)                   | 55BD*(O3H5)                 | 18.05                |
|          | 46BD( $\text{Pb}^{2+}$ O2) | 55BD*(O3H5)                 | 34.76                |
|          | 48BD(O3H5)                 | 53BD*( $\text{Pb}^{2+}$ O2) | 1.14                 |
| $W_3S_1$ | 43LP( $\text{Pb}^{2+}$ )   | 59BD*(O2H5)                 | 0.24                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 60BD*(O2H6)                 | 0.41                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 61BD*(O3H7)                 | 0.24                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 62BD*(O3H8)                 | 0.41                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 63BD*(O4H9)                 | 0.24                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 64BD*(O4H10)                | 0.41                 |
|          | 44LP(O2)                   | 56LV( $\text{Pb}^{2+}$ )    | 2.01                 |
|          | 45LP(O2)                   | 56LV( $\text{Pb}^{2+}$ )    | 10.59                |
|          | 45LP(O2)                   | 57LV( $\text{Pb}^{2+}$ )    | 12.97                |
|          | 45LP(O2)                   | 58LV( $\text{Pb}^{2+}$ )    | 3.8                  |
|          | 46LP(O3)                   | 56LV( $\text{Pb}^{2+}$ )    | 2                    |
|          | 46LP(O3)                   | 58LV( $\text{Pb}^{2+}$ )    | 1.09                 |
|          | 47LP(O3)                   | 56LV( $\text{Pb}^{2+}$ )    | 10.58                |
|          | 47LP(O3)                   | 57LV( $\text{Pb}^{2+}$ )    | 12.17                |
|          | 47LP(O3)                   | 58LV( $\text{Pb}^{2+}$ )    | 4.6                  |
|          | 48LP(O4)                   | 56LV( $\text{Pb}^{2+}$ )    | 2                    |
|          | 49LP(O4)                   | 56LV( $\text{Pb}^{2+}$ )    | 10.58                |
|          | 49LP(O4)                   | 58LV( $\text{Pb}^{2+}$ )    | 16.76                |
| $W_3S_2$ | 43LP( $\text{Pb}^{2+}$ )   | 59BD*(O2H5)                 | 0.23                 |
|          | 43LP( $\text{Pb}^{2+}$ )   | 60BD*(O2H6)                 | 0.63                 |
|          | 44LP(O2)                   | 57LV( $\text{Pb}^{2+}$ )    | 2.03                 |

|          |                          |                             |        |
|----------|--------------------------|-----------------------------|--------|
| $W_3S_3$ | 45LP(O2)                 | 56LV( $\text{Pb}^{2+}$ )    | 14.09  |
|          | 45LP(O2)                 | 57LV( $\text{Pb}^{2+}$ )    | 1.75   |
|          | 46LP(O3)                 | 63BD*(O4H9)                 | 2.24   |
|          | 47LP(O3)                 | 63BD*(O4H9)                 | 140.86 |
|          | 52BD(O3H7)               | 63BD*(O4H9)                 | 3.21   |
|          | 53BD(O3H8)               | 63BD*(O4H9)                 | 3.22   |
|          | 43LP( $\text{Pb}^{2+}$ ) | 61BD*(O3H7)                 | 0.26   |
|          | 43LP( $\text{Pb}^{2+}$ ) | 62BD*(O3H8)                 | 0.66   |
|          | 44LP(O2)                 | 63BD*(O4H9)                 | 1.85   |
|          | 45LP(O2)                 | 63BD*(O4H9)                 | 95.63  |
|          | 50BD(O2H5)               | 63BD*(O4H9)                 | 2.11   |
|          | 51BD(O2H6)               | 63BD*(O4H9)                 | 2.11   |
| $W_4S_1$ | 46LP(O3)                 | 57LV( $\text{Pb}^{2+}$ )    | 2.79   |
|          | 47LP(O3)                 | 56LV( $\text{Pb}^{2+}$ )    | 18.75  |
|          | 44LP( $\text{Pb}^{2+}$ ) | 64BD*(O2H6)                 | 0.32   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 65BD*(O2H7)                 | 0.23   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 66BD*(O3H8)                 | 0.37   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 67BD*(O3H9)                 | 0.22   |
|          | 45LP(O2)                 | 62LV( $\text{Pb}^{2+}$ )    | 1.35   |
|          | 45LP(O2)                 | 63BD*( $\text{Pb}^{2+}$ O4) | 1.4    |
|          | 46LP(O2)                 | 61LV( $\text{Pb}^{2+}$ )    | 6.78   |
|          | 46LP(O2)                 | 62LV( $\text{Pb}^{2+}$ )    | 18.13  |
|          | 47LP(O3)                 | 61LV( $\text{Pb}^{2+}$ )    | 3      |
|          | 48LP(O3)                 | 61LV( $\text{Pb}^{2+}$ )    | 18.04  |
| $W_4S_2$ | 48LP(O3)                 | 62LV( $\text{Pb}^{2+}$ )    | 4.43   |
|          | 50LP(O5)                 | 69BD*(O4H11)                | 1.08   |
|          | 51LP(O5)                 | 69BD*(O4H11)                | 74.19  |
|          | 59BD(O5H12)              | 69BD*(O4H11)                | 1.56   |
|          | 60BD(O5H13)              | 69BD*(O4H11)                | 1.54   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 64BD*(O2H6)                 | 0.34   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 65BD*(O2H7)                 | 0.28   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 66BD*(O3H8)                 | 0.61   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 67BD*(O3H9)                 | 0.23   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 70BD*(O5H12)                | 0.34   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 71BD*(O5H13)                | 0.27   |
|          | 45LP(O2)                 | 61LV( $\text{Pb}^{2+}$ )    | 1.19   |
| $W_4S_3$ | 46LP(O2)                 | 61LV( $\text{Pb}^{2+}$ )    | 14.97  |
|          | 46LP(O2)                 | 62LV( $\text{Pb}^{2+}$ )    | 2.88   |
|          | 46LP(O2)                 | 63LV( $\text{Pb}^{2+}$ )    | 11.21  |
|          | 47LP(O3)                 | 63LV( $\text{Pb}^{2+}$ )    | 1.55   |
|          | 48LP(O3)                 | 61LV( $\text{Pb}^{2+}$ )    | 5.79   |
|          | 48LP(O3)                 | 62LV( $\text{Pb}^{2+}$ )    | 21.82  |
|          | 49LP(O4)                 | 65BD*(O2H7)                 | 7.84   |
|          | 50LP(O4)                 | 65BD*(O2H7)                 | 9.97   |
|          | 49LP(O4)                 | 71BD*(O5H13)                | 6.19   |
|          | 50LP(O4)                 | 71BD*(O5H13)                | 11.45  |
|          | 51LP(O5)                 | 61LV( $\text{Pb}^{2+}$ )    | 1.28   |
|          | 52LP(O5)                 | 61LV( $\text{Pb}^{2+}$ )    | 15.13  |
| $W_4S_3$ | 52LP(O5)                 | 62LV( $\text{Pb}^{2+}$ )    | 2.6    |
|          | 52LP(O5)                 | 63LV( $\text{Pb}^{2+}$ )    | 11.35  |
|          | 44LP( $\text{Pb}^{2+}$ ) | 64BD*(O2H6)                 | 0.27   |
| $W_4S_3$ | 44LP( $\text{Pb}^{2+}$ ) | 65BD*(O2H7)                 | 0.53   |
|          | 44LP( $\text{Pb}^{2+}$ ) | 66BD*(O3H8)                 | 0.27   |

|                               |                           |                            |        |                               |                         |                            |       |
|-------------------------------|---------------------------|----------------------------|--------|-------------------------------|-------------------------|----------------------------|-------|
| W <sub>4</sub> S <sub>4</sub> | 44LP(Pb <sup>2+</sup> )   | 67BD*(O3H9)                | 0.27   | W <sub>5</sub> S <sub>2</sub> | 53LP(O5)                | 72BD*(O3H10)               | 9.61  |
|                               | 44LP(Pb <sup>2+</sup> )   | 68BD*(O4H10)               | 0.18   |                               | 45LP(Pb <sup>2+</sup> ) | 69BD*(O2H7)                | 0.22  |
|                               | 44LP(Pb <sup>2+</sup> )   | 69BD*(O4H11)               | 0.42   |                               | 45LP(Pb <sup>2+</sup> ) | 70BD*(O2H8)                | 0.31  |
|                               | 44LP(Pb <sup>2+</sup> )   | 70BD*(O5H12)               | 0.42   |                               | 46LP(O2)                | 66LV(Pb <sup>2+</sup> )    | 1.75  |
|                               | 44LP(Pb <sup>2+</sup> )   | 71BD*(O5H13)               | 0.18   |                               | 46LP(O2)                | 67BD*(Pb <sup>2+</sup> O3) | 1.3   |
|                               | 45LP(O2)                  | 61LV(Pb <sup>2+</sup> )    | 1.93   |                               | 47LP(O2)                | 66LV(Pb <sup>2+</sup> )    | 21.74 |
|                               | 46LP(O2)                  | 62LV(Pb <sup>2+</sup> )    | 11.68  |                               | 51LP(O5)                | 74BD*(O4H12)               | 58.53 |
|                               | 46LP(O2)                  | 63LV(Pb <sup>2+</sup> )    | 28.07  |                               | 62BD(O5H13)             | 74BD*(O4H12)               | 1.12  |
|                               | 47LP(O3)                  | 62LV(Pb <sup>2+</sup> )    | 3.6    |                               | 63BD(O5H14)             | 74BD*(O4H12)               | 1.11  |
|                               | 48LP(O3)                  | 62LV(Pb <sup>2+</sup> )    | 28.55  |                               | 53LP(O6)                | 72BD*(O3H10)               | 59.34 |
|                               | 48LP(O3)                  | 63LV(Pb <sup>2+</sup> )    | 8.87   |                               | 64BD(O6H15)             | 72BD*(O3H10)               | 1.14  |
|                               | 49LP(O4)                  | 62LV(Pb <sup>2+</sup> )    | 1.78   |                               | 65BD(O6H16)             | 72BD*(O3H10)               | 1.14  |
|                               | 50LP(O4)                  | 61LV(Pb <sup>2+</sup> )    | 34.96  |                               | 45LP(Pb <sup>2+</sup> ) | 71BD*(O3H9)                | 0.25  |
|                               | 50LP(O4)                  | 62LV(Pb <sup>2+</sup> )    | 2.46   |                               | 45LP(Pb <sup>2+</sup> ) | 72BD*(O3H10)               | 0.58  |
|                               | 51LP(O5)                  | 62LV(Pb <sup>2+</sup> )    | 1.78   |                               | 45LP(Pb <sup>2+</sup> ) | 75BD*(O5H13)               | 0.28  |
|                               | 52LP(O5)                  | 61LV(Pb <sup>2+</sup> )    | 34.88  |                               | 45LP(Pb <sup>2+</sup> ) | 76BD*(O5H14)               | 0.38  |
|                               | 52LP(O5)                  | 62LV(Pb <sup>2+</sup> )    | 2.48   |                               | 47LP(O2)                | 78BD*(O6H16)               | 48.95 |
|                               | 45LP(O2)                  | 68BD*(O4H10)               | 1.2    |                               | 49LP(O3)                | 66LV(Pb <sup>2+</sup> )    | 15.3  |
|                               | 46LP(O2)                  | 68BD*(O4H10)               | 80.6   |                               | 49LP(O3)                | 67LV(Pb <sup>2+</sup> )    | 7.5   |
|                               | 53BD(O2H6)                | 68BD*(O4H10)               | 1.76   |                               | 50LP(O4)                | 77BD*(O6H15)               | 10.03 |
|                               | 54BD(O2H7)                | 68BD*(O4H10)               | 1.76   |                               | 51LP(O4)                | 75BD*(O5H13)               | 20.41 |
|                               | 49LP(O5)                  | 67BD*(O3H9)                | 1.28   |                               | 52LP(O5)                | 66LV(Pb <sup>2+</sup> )    | 1.58  |
|                               | 50LP(O5)                  | 67BD*(O3H9)                | 84.68  |                               | 53LP(O5)                | 66LV(Pb <sup>2+</sup> )    | 8.58  |
|                               | 59BD(O5H12)               | 67BD*(O3H9)                | 1.76   |                               | 53LP(O5)                | 67LV(Pb <sup>2+</sup> )    | 19.13 |
|                               | 60BD(O5H13)               | 67BD*(O3H9)                | 1.75   |                               | 53LP(O5)                | 68BD*(Pb <sup>2+</sup> O6) | 1.3   |
| W <sub>4</sub> S <sub>5</sub> | 44LP(Pb <sup>2+</sup> )   | 68BD*(O4H10)               | 0.2    | W <sub>5</sub> S <sub>4</sub> | 45LP(Pb <sup>2+</sup> ) | 69BD*(O2H7)                | 0.19  |
|                               | 44LP(Pb <sup>2+</sup> )   | 69BD*(O4H11)               | 0.76   |                               | 45LP(Pb <sup>2+</sup> ) | 70BD*(O2H8)                | 0.62  |
|                               | 44LP(Pb <sup>2+</sup> )   | 70BD*(O5H9)                | 0.11   |                               | 45LP(Pb <sup>2+</sup> ) | 73BD*(O4H11)               | 0.21  |
|                               | 46LP(O3)                  | 70BD*(O5H9)                | 15.55  |                               | 45LP(Pb <sup>2+</sup> ) | 74BD*(O4H12)               | 0.23  |
|                               | 52BD(Pb <sup>2+</sup> O3) | 70BD*(O5H9)                | 5.4    |                               | 45LP(Pb <sup>2+</sup> ) | 75BD*(O5H13)               | 0.31  |
|                               | 48LP(O4)                  | 62LV(Pb <sup>2+</sup> )    | 1.18   |                               | 45LP(Pb <sup>2+</sup> ) | 76BD*(O5H14)               | 0.25  |
|                               | 49LP(O4)                  | 61LV(Pb <sup>2+</sup> )    | 7.61   |                               | 45LP(Pb <sup>2+</sup> ) | 77BD*(O6H15)               | 0.24  |
|                               | 49LP(O4)                  | 62LV(Pb <sup>2+</sup> )    | 8.85   |                               | 45LP(Pb <sup>2+</sup> ) | 78BD*(O6H16)               | 0.29  |
|                               | 50LP(O5)                  | 66BD*(O2H13)               | 2.48   |                               | 46LP(O2)                | 68LV(Pb <sup>2+</sup> )    | 1.46  |
|                               | 51LP(O5)                  | 66BD*(O2H13)               | 186.35 |                               | 47LP(O2)                | 66LV(Pb <sup>2+</sup> )    | 1.48  |
|                               | 59BD(O5H9)                | 66BD*(O2H13)               | 4.7    |                               | 47LP(O2)                | 67LV(Pb <sup>2+</sup> )    | 32.34 |
|                               | 60BD(O5H12)               | 66BD*(O2H13)               | 4.29   |                               | 47LP(O2)                | 68LV(Pb <sup>2+</sup> )    | 2.5   |
|                               |                           |                            |        |                               | 48LP(O3)                | 74BD*(O4H12)               | 11.4  |
|                               |                           |                            |        |                               | 49LP(O3)                | 74BD*(O4H12)               | 2.32  |
| W <sub>5</sub> S <sub>1</sub> | 45LP(Pb <sup>2+</sup> )   | 69BD*(O2H7)                | 0.25   |                               | 49LP(O3)                | 76BD*(O5H14)               | 18.5  |
|                               | 45LP(Pb <sup>2+</sup> )   | 70BD*(O2H8)                | 0.32   |                               | 50LP(O4)                | 66LV(Pb <sup>2+</sup> )    | 2.33  |
|                               | 45LP(Pb <sup>2+</sup> )   | 71BD*(O3H9)                | 0.32   |                               | 50LP(O4)                | 68LV(Pb <sup>2+</sup> )    | 1.86  |
|                               | 45LP(Pb <sup>2+</sup> )   | 72BD*(O3H10)               | 0.25   |                               | 51LP(O4)                | 66LV(Pb <sup>2+</sup> )    | 21.82 |
|                               | 46LP(O2)                  | 68BD*(Pb <sup>2+</sup> O6) | 1.12   |                               | 51LP(O4)                | 67LV(Pb <sup>2+</sup> )    | 15.53 |
|                               | 47LP(O2)                  | 66LV(Pb <sup>2+</sup> )    | 16.75  |                               | 51LP(O4)                | 68LV(Pb <sup>2+</sup> )    | 3.87  |
|                               | 47LP(O2)                  | 67LV(Pb <sup>2+</sup> )    | 10.52  |                               | 61BD(O4H12)             | 66LV(Pb <sup>2+</sup> )    | 1.13  |
|                               | 48LP(O3)                  | 68BD*(Pb <sup>2+</sup> O6) | 1.12   |                               | 52LP(O5)                | 66LV(Pb <sup>2+</sup> )    | 1.25  |
|                               | 49LP(O3)                  | 66LV(Pb <sup>2+</sup> )    | 16.76  |                               | 52LP(O5)                | 67LV(Pb <sup>2+</sup> )    | 1.15  |
|                               | 49LP(O3)                  | 67LV(Pb <sup>2+</sup> )    | 10.53  |                               | 53LP(O5)                | 66LV(Pb <sup>2+</sup> )    | 20.88 |
|                               | 51LP(O4)                  | 78BD*(O6H16)               | 61.4   |                               | 53LP(O5)                | 67LV(Pb <sup>2+</sup> )    | 1.4   |
|                               | 60BD(O4H11)               | 78BD*(O6H16)               | 1.19   |                               | 53LP(O5)                | 68LV(Pb <sup>2+</sup> )    | 14.81 |
|                               | 61BD(O4H12)               | 78BD*(O6H16)               | 1.19   |                               | 54LP(O6)                | 66LV(Pb <sup>2+</sup> )    | 1.9   |
|                               | 52LP(O5)                  | 69BD*(O2H7)                | 6.2    |                               | 54LP(O6)                | 67LV(Pb <sup>2+</sup> )    | 1.45  |
|                               | 53LP(O5)                  | 69BD*(O2H7)                | 10.1   |                               | 55LP(O6)                | 66LV(Pb <sup>2+</sup> )    | 6.53  |
|                               | 52LP(O5)                  | 72BD*(O3H10)               | 6.8    |                               |                         |                            |       |

|                               |                           |                            |       |                               |                         |                         |       |
|-------------------------------|---------------------------|----------------------------|-------|-------------------------------|-------------------------|-------------------------|-------|
| W <sub>5</sub> S <sub>5</sub> | 55LP(O6)                  | 67LV(Pb <sup>2+</sup> )    | 6.93  | W <sub>5</sub> S <sub>8</sub> | 50LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 3.48  |
|                               | 55LP(O6)                  | 68LV(Pb <sup>2+</sup> )    | 23.55 |                               | 51LP(O4)                | 66LV(Pb <sup>2+</sup> ) | 54.34 |
|                               | 45LP(Pb <sup>2+</sup> )   | 69BD*(O2H7)                | 0.37  |                               | 51LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 3.96  |
|                               | 45LP(Pb <sup>2+</sup> )   | 70BD*(O2H8)                | 0.16  |                               | 52LP(O5)                | 66LV(Pb <sup>2+</sup> ) | 2.43  |
|                               | 45LP(Pb <sup>2+</sup> )   | 71BD*(O3H9)                | 0.2   |                               | 53LP(O5)                | 67LV(Pb <sup>2+</sup> ) | 55.28 |
|                               | 45LP(Pb <sup>2+</sup> )   | 72BD*(O3H10)               | 0.2   |                               | 53LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 2.41  |
|                               | 45LP(Pb <sup>2+</sup> )   | 73BD*(O4H11)               | 0.16  |                               | 54LP(O6)                | 67LV(Pb <sup>2+</sup> ) | 2.22  |
|                               | 45LP(Pb <sup>2+</sup> )   | 74BD*(O4H12)               | 0.37  |                               | 55LP(O6)                | 68LV(Pb <sup>2+</sup> ) | 52.9  |
|                               | 46LP(O2)                  | 66LV(Pb <sup>2+</sup> )    | 1.19  |                               | 64BD(O6H15)             | 68LV(Pb <sup>2+</sup> ) | 1.83  |
|                               | 46LP(O2)                  | 67LV(Pb <sup>2+</sup> )    | 2.26  |                               | 65BD(O6H16)             | 68LV(Pb <sup>2+</sup> ) | 1.83  |
| W <sub>5</sub> S <sub>6</sub> | 47LP(O2)                  | 66LV(Pb <sup>2+</sup> )    | 29.73 | W <sub>5</sub> S <sub>9</sub> | 45LP(Pb <sup>2+</sup> ) | 71BD*(O3H9)             | 0.4   |
|                               | 47LP(O2)                  | 67LV(Pb <sup>2+</sup> )    | 2.13  |                               | 45LP(Pb <sup>2+</sup> ) | 72BD*(O3H10)            | 0.26  |
|                               | 48LP(O3)                  | 67LV(Pb <sup>2+</sup> )    | 2.51  |                               | 45LP(Pb <sup>2+</sup> ) | 73BD*(O4H11)            | 0.24  |
|                               | 48LP(O3)                  | 68BD*(Pb <sup>2+</sup> O5) | 2.26  |                               | 45LP(Pb <sup>2+</sup> ) | 74BD*(O4H12)            | 0.58  |
|                               | 49LP(O3)                  | 67LV(Pb <sup>2+</sup> )    | 33.57 |                               | 45LP(Pb <sup>2+</sup> ) | 77BD*(O6H15)            | 0.26  |
|                               | 50LP(O4)                  | 66LV(Pb <sup>2+</sup> )    | 1.2   |                               | 45LP(Pb <sup>2+</sup> ) | 78BD*(O6H16)            | 0.4   |
|                               | 50LP(O4)                  | 67LV(Pb <sup>2+</sup> )    | 2.25  |                               | 47LP(O2)                | 75BD*(O5H13)            | 40.27 |
|                               | 51LP(O4)                  | 66LV(Pb <sup>2+</sup> )    | 29.79 |                               | 48LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 1.16  |
|                               | 51LP(O4)                  | 67LV(Pb <sup>2+</sup> )    | 2.09  |                               | 48LP(O3)                | 67LV(Pb <sup>2+</sup> ) | 1.24  |
|                               | 54LP(O6)                  | 76BD*(O5H14)               | 56.92 |                               | 49LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 17.36 |
| W <sub>5</sub> S <sub>7</sub> | 64BD(O6H15)               | 76BD*(O5H14)               | 1.11  | W <sub>5</sub> S <sub>9</sub> | 49LP(O3)                | 67LV(Pb <sup>2+</sup> ) | 1.91  |
|                               | 65BD(O6H16)               | 76BD*(O5H14)               | 1.11  |                               | 49LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 11.58 |
|                               | 45LP(Pb <sup>2+</sup> )   | 71BD*(O2H16)               | 0.13  |                               | 50LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 1.5   |
|                               | 54LP(O6)                  | 71BD*(O2H16)               | 28.28 |                               | 51LP(O4)                | 66LV(Pb <sup>2+</sup> ) | 4.1   |
|                               | 55BD(Pb <sup>2+</sup> O6) | 71BD*(O2H16)               | 17.58 |                               | 51LP(O4)                | 67LV(Pb <sup>2+</sup> ) | 21.79 |
|                               | 45LP(Pb <sup>2+</sup> )   | 72BD*(O3H9)                | 0.2   |                               | 52LP(O5)                | 72BD*(O3H10)            | 10.66 |
|                               | 45LP(Pb <sup>2+</sup> )   | 73BD*(O3H10)               | 0.37  |                               | 53LP(O5)                | 72BD*(O3H10)            | 18.24 |
|                               | 45LP(Pb <sup>2+</sup> )   | 74BD*(O4H11)               | 0.26  |                               | 52LP(O5)                | 77BD*(O6H15)            | 11.41 |
|                               | 45LP(Pb <sup>2+</sup> )   | 75BD*(O4H12)               | 0.22  |                               | 53LP(O5)                | 77BD*(O6H15)            | 17.63 |
|                               | 58BD(O2H16)               | 68BD*(Pb <sup>2+</sup> O6) | 2.1   |                               | 54LP(O6)                | 66LV(Pb <sup>2+</sup> ) | 1.14  |
| W <sub>5</sub> S <sub>7</sub> | 47LP(O3)                  | 66LV(Pb <sup>2+</sup> )    | 1.5   | W <sub>5</sub> S <sub>9</sub> | 54LP(O6)                | 67LV(Pb <sup>2+</sup> ) | 1.25  |
|                               | 47LP(O3)                  | 67LV(Pb <sup>2+</sup> )    | 1.62  |                               | 55LP(O6)                | 66LV(Pb <sup>2+</sup> ) | 17.33 |
|                               | 48LP(O3)                  | 66LV(Pb <sup>2+</sup> )    | 21.06 |                               | 55LP(O6)                | 67LV(Pb <sup>2+</sup> ) | 1.86  |
|                               | 49LP(O4)                  | 67LV(Pb <sup>2+</sup> )    | 1.63  |                               | 55LP(O6)                | 68LV(Pb <sup>2+</sup> ) | 11.66 |
|                               | 49LP(O4)                  | 68BD*(Pb <sup>2+</sup> O6) | 1.43  |                               | 45LP(Pb <sup>2+</sup> ) | 69BD*(O2H7)             | 0.29  |
|                               | 50LP(O4)                  | 67LV(Pb <sup>2+</sup> )    | 18.92 |                               | 45LP(Pb <sup>2+</sup> ) | 70BD*(O2H8)             | 0.14  |
|                               | 51LP(O5)                  | 69BD*(O2H7)                | 1.12  |                               | 45LP(Pb <sup>2+</sup> ) | 71BD*(O3H9)             | 0.48  |
|                               | 52LP(O5)                  | 69BD*(O2H7)                | 73.15 |                               | 45LP(Pb <sup>2+</sup> ) | 72BD*(O3H10)            | 0.28  |
|                               | 45LP(Pb <sup>2+</sup> )   | 69BD*(O2H7)                | 0.24  |                               | 45LP(Pb <sup>2+</sup> ) | 75BD*(O5H13)            | 0.52  |
|                               | 45LP(Pb <sup>2+</sup> )   | 70BD*(O2H8)                | 0.24  |                               | 45LP(Pb <sup>2+</sup> ) | 76BD*(O5H14)            | 0.26  |
| W <sub>5</sub> S <sub>7</sub> | 45LP(Pb <sup>2+</sup> )   | 71BD*(O3H9)                | 0.59  | W <sub>5</sub> S <sub>9</sub> | 45LP(Pb <sup>2+</sup> ) | 77BD*(O6H15)            | 0.32  |
|                               | 45LP(Pb <sup>2+</sup> )   | 72BD*(O3H10)               | 0.23  |                               | 45LP(Pb <sup>2+</sup> ) | 78BD*(O6H16)            | 0.13  |
|                               | 45LP(Pb <sup>2+</sup> )   | 73BD*(O4H11)               | 0.24  |                               | 46LP(O2)                | 67LV(Pb <sup>2+</sup> ) | 3.49  |
|                               | 45LP(Pb <sup>2+</sup> )   | 74BD*(O4H12)               | 0.24  |                               | 47LP(O2)                | 66LV(Pb <sup>2+</sup> ) | 3.71  |
|                               | 45LP(Pb <sup>2+</sup> )   | 75BD*(O5H13)               | 0.59  |                               | 47LP(O2)                | 67LV(Pb <sup>2+</sup> ) | 25.03 |
|                               | 45LP(Pb <sup>2+</sup> )   | 76BD*(O5H14)               | 0.23  |                               | 47LP(O2)                | 68LV(Pb <sup>2+</sup> ) | 4.79  |
|                               | 45LP(Pb <sup>2+</sup> )   | 77BD*(O6H15)               | 0.33  |                               | 48LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 1.2   |
|                               | 45LP(Pb <sup>2+</sup> )   | 78BD*(O6H16)               | 0.33  |                               | 49LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 3.29  |
|                               | 46LP(O2)                  | 68LV(Pb <sup>2+</sup> )    | 3.48  |                               | 49LP(O3)                | 67LV(Pb <sup>2+</sup> ) | 5.97  |
|                               | 47LP(O2)                  | 66LV(Pb <sup>2+</sup> )    | 54.32 |                               | 49LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 28.16 |
| W <sub>5</sub> S <sub>7</sub> | 47LP(O2)                  | 68LV(Pb <sup>2+</sup> )    | 3.98  | W <sub>5</sub> S <sub>9</sub> | 51LP(O4)                | 76BD*(O5H14)            | 44.61 |
|                               | 48LP(O3)                  | 66LV(Pb <sup>2+</sup> )    | 2.43  |                               | 52LP(O5)                | 66LV(Pb <sup>2+</sup> ) | 1.66  |
|                               | 49LP(O3)                  | 67LV(Pb <sup>2+</sup> )    | 55.28 |                               | 52LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 1.18  |
|                               | 49LP(O3)                  | 68LV(Pb <sup>2+</sup> )    | 2.41  |                               | 53LP(O5)                | 66LV(Pb <sup>2+</sup> ) | 38.71 |

|                                |                         |                         |       |                                |                         |                             |       |
|--------------------------------|-------------------------|-------------------------|-------|--------------------------------|-------------------------|-----------------------------|-------|
| W <sub>5</sub> S <sub>10</sub> | 53LP(O5)                | 67LV(Pb <sup>2+</sup> ) | 2.67  | W <sub>5</sub> S <sub>12</sub> | 53LP(O5)                | 67LV(Pb <sup>2+</sup> )     | 48.28 |
|                                | 53LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 1.02  |                                | 54LP(O6)                | 66LV(Pb <sup>2+</sup> )     | 2.69  |
|                                | 54LP(O6)                | 67LV(Pb <sup>2+</sup> ) | 2.88  |                                | 55LP(O6)                | 66LV(Pb <sup>2+</sup> )     | 33.65 |
|                                | 55LP(O6)                | 66LV(Pb <sup>2+</sup> ) | 12.32 |                                | 55LP(O6)                | 67LV(Pb <sup>2+</sup> )     | 15.67 |
|                                | 55LP(O6)                | 67LV(Pb <sup>2+</sup> ) | 14.75 |                                | 55LP(O6)                | 68LV(Pb <sup>2+</sup> )     | 11.67 |
|                                | 45LP(Pb <sup>2+</sup> ) | 71BD*(O3H9)             | 0.36  |                                | 48LP(O3)                | 75BD*(O5H13)                | 45.7  |
|                                | 45LP(Pb <sup>2+</sup> ) | 72BD*(O3H10)            | 0.27  |                                | 50LP(O5)                | 70BD*(O2H8)                 | 14.5  |
|                                | 45LP(Pb <sup>2+</sup> ) | 73BD*(O4H11)            | 0.51  |                                | 51LP(O5)                | 70BD*(O2H8)                 | 1.15  |
|                                | 45LP(Pb <sup>2+</sup> ) | 74BD*(O4H12)            | 0.24  |                                | 51LP(O5)                | 74BD*(O4H12)                | 53.33 |
|                                | 45LP(Pb <sup>2+</sup> ) | 75BD*(O5H13)            | 0.27  |                                | 62BD(O5H13)             | 74BD*(O4H12)                | 1.23  |
| W <sub>5</sub> S <sub>11</sub> | 45LP(Pb <sup>2+</sup> ) | 76BD*(O5H14)            | 0.36  | W <sub>6</sub> S <sub>1</sub>  | 53LP(O6)                | 69BD*(O2H7)                 | 63.76 |
|                                | 47LP(O2)                | 73BD*(O4H11)            | 21.4  |                                | 64BD(O6H15)             | 69BD*(O2H7)                 | 1.26  |
|                                | 46LP(O2)                | 78BD*(O6H16)            | 7.07  |                                | 65BD(O6H16)             | 69BD*(O2H7)                 | 1.26  |
|                                | 48LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 1.1   |                                |                         |                             |       |
|                                | 49LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 15.37 |                                | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                 | 0.38  |
|                                | 49LP(O3)                | 67LV(Pb <sup>2+</sup> ) | 2.82  |                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                 | 0.27  |
|                                | 49LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 11.78 |                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)                | 0.25  |
|                                | 50LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 1.79  |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)                | 0.23  |
|                                | 51LP(O4)                | 66LV(Pb <sup>2+</sup> ) | 11.09 |                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)                | 0.25  |
|                                | 51LP(O4)                | 67LV(Pb <sup>2+</sup> ) | 20.15 |                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)                | 0.23  |
| W <sub>5</sub> S <sub>11</sub> | 52LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 1.08  | W <sub>6</sub> S <sub>2</sub>  | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)                | 0.27  |
|                                | 53LP(O5)                | 66LV(Pb <sup>2+</sup> ) | 15.35 |                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)                | 0.38  |
|                                | 53LP(O5)                | 67LV(Pb <sup>2+</sup> ) | 2.77  |                                | 48LP(O2)                | 71LV(Pb <sup>2+</sup> )     | 19.21 |
|                                | 53LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 11.83 |                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> )     | 1.31  |
|                                | 54LP(O6)                | 72BD*(O3H10)            | 7.02  |                                | 48LP(O2)                | 73LV(Pb <sup>2+</sup> )     | 17.7  |
|                                | 55LP(O6)                | 72BD*(O3H10)            | 10.84 |                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> )     | 2.02  |
|                                | 54LP(O6)                | 75BD*(O5H13)            | 7.85  |                                | 49LP(O3)                | 73LV(Pb <sup>2+</sup> )     | 1.35  |
|                                | 55LP(O6)                | 75BD*(O5H13)            | 10.15 |                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> )     | 3.36  |
|                                | 45LP(Pb <sup>2+</sup> ) | 69BD*(O2H7)             | 0.34  |                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> )     | 28.99 |
|                                | 45LP(Pb <sup>2+</sup> ) | 70BD*(O2H8)             | 0.2   |                                | 50LP(O3)                | 73LV(Pb <sup>2+</sup> )     | 2.48  |
| W <sub>5</sub> S <sub>11</sub> | 45LP(Pb <sup>2+</sup> ) | 71BD*(O3H9)             | 0.37  | W <sub>6</sub> S <sub>2</sub>  | 62BD(O3H11)             | 72LV(Pb <sup>2+</sup> )     | 1.19  |
|                                | 45LP(Pb <sup>2+</sup> ) | 72BD*(O3H10)            | 0.3   |                                | 52LP(O4)                | 75BD*(O2H9)                 | 17.89 |
|                                | 45LP(Pb <sup>2+</sup> ) | 73BD*(O4H11)            | 0.38  |                                | 51LP(O4)                | 83BD*(O6H17)                | 10.5  |
|                                | 45LP(Pb <sup>2+</sup> ) | 74BD*(O4H12)            | 0.18  |                                | 52LP(O4)                | 83BD*(O6H17)                | 1.42  |
|                                | 45LP(Pb <sup>2+</sup> ) | 75BD*(O5H13)            | 0.15  |                                | 53LP(O5)                | 77BD*(O3H11)                | 10.54 |
|                                | 45LP(Pb <sup>2+</sup> ) | 76BD*(O5H14)            | 0.37  |                                | 54LP(O5)                | 77BD*(O3H11)                | 1.44  |
|                                | 45LP(Pb <sup>2+</sup> ) | 77BD*(O6H15)            | 0.52  |                                | 54LP(O5)                | 84BD*(O7H18)                | 17.84 |
|                                | 45LP(Pb <sup>2+</sup> ) | 78BD*(O6H16)            | 0.2   |                                | 55LP(O6)                | 71LV(Pb <sup>2+</sup> )     | 2     |
|                                | 46LP(O2)                | 66LV(Pb <sup>2+</sup> ) | 2.52  |                                | 55LP(O6)                | 73LV(Pb <sup>2+</sup> )     | 1.34  |
|                                | 46LP(O2)                | 67LV(Pb <sup>2+</sup> ) | 2.64  |                                | 56LP(O6)                | 71LV(Pb <sup>2+</sup> )     | 3.24  |
| W <sub>5</sub> S <sub>11</sub> | 47LP(O2)                | 66LV(Pb <sup>2+</sup> ) | 50.13 | W <sub>6</sub> S <sub>2</sub>  | 56LP(O6)                | 72LV(Pb <sup>2+</sup> )     | 29.01 |
|                                | 47LP(O2)                | 68LV(Pb <sup>2+</sup> ) | 1.59  |                                | 56LP(O6)                | 73LV(Pb <sup>2+</sup> )     | 2.48  |
|                                | 48LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 1.5   |                                | 68BD(O6H17)             | 72LV(Pb <sup>2+</sup> )     | 1.19  |
|                                | 48LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 1.12  |                                | 58LP(O7)                | 71LV(Pb <sup>2+</sup> )     | 19.26 |
|                                | 49LP(O3)                | 66LV(Pb <sup>2+</sup> ) | 2.68  |                                | 58LP(O7)                | 72LV(Pb <sup>2+</sup> )     | 1.26  |
|                                | 49LP(O3)                | 68LV(Pb <sup>2+</sup> ) | 52.6  |                                | 58LP(O7)                | 73LV(Pb <sup>2+</sup> )     | 17.73 |
|                                | 59BD(O3H10)             | 68LV(Pb <sup>2+</sup> ) | 1.74  |                                | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)                | 0.33  |
|                                | 50LP(O4)                | 67LV(Pb <sup>2+</sup> ) | 2.07  |                                | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)                | 0.25  |
|                                | 50LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 1.27  |                                | 49LP(O3)                | 80BD*(O5H14)                | 40.79 |
|                                | 51LP(O4)                | 66LV(Pb <sup>2+</sup> ) | 33.46 |                                | 51LP(O4)                | 71LV(Pb <sup>2+</sup> )     | 25.91 |
| W <sub>5</sub> S <sub>11</sub> | 51LP(O4)                | 67LV(Pb <sup>2+</sup> ) | 17.26 | W <sub>6</sub> S <sub>2</sub>  | 51LP(O4)                | 73BD*(Pb <sup>2+</sup> +O5) | 1.32  |
|                                | 51LP(O4)                | 68LV(Pb <sup>2+</sup> ) | 1.45  |                                | 53LP(O6)                | 81BD*(O5H15)                | 9.94  |
|                                | 52LP(O5)                | 68LV(Pb <sup>2+</sup> ) | 3.86  |                                | 54LP(O6)                | 81BD*(O5H15)                | 1.14  |
|                                | 53LP(O5)                | 66LV(Pb <sup>2+</sup> ) | 8.06  |                                | 54LP(O6)                | 79BD*(O4H13)                | 18.13 |

|                               |                         |                            |       |                               |                           |                            |       |
|-------------------------------|-------------------------|----------------------------|-------|-------------------------------|---------------------------|----------------------------|-------|
| W <sub>6</sub> S <sub>3</sub> | 56LP(O7)                | 74BD*(O2H8)                | 51.9  | W <sub>6</sub> S <sub>6</sub> | 47LP(O2)                  | 73LV(Pb <sup>2+</sup> )    | 1.72  |
|                               | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                | 0.24  |                               | 48LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 5.26  |
|                               | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                | 0.24  |                               | 48LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 24.64 |
|                               | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.27  |                               | 48LP(O2)                  | 73LV(Pb <sup>2+</sup> )    | 3.88  |
|                               | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.27  |                               | 60BD(O2H9)                | 72LV(Pb <sup>2+</sup> )    | 1.08  |
|                               | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)               | 0.24  |                               | 49LP(O3)                  | 71LV(Pb <sup>2+</sup> )    | 2.16  |
|                               | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)               | 0.23  |                               | 50LP(O3)                  | 71LV(Pb <sup>2+</sup> )    | 7     |
|                               | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.29  |                               | 50LP(O3)                  | 72LV(Pb <sup>2+</sup> )    | 2.41  |
|                               | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.29  |                               | 50LP(O3)                  | 73LV(Pb <sup>2+</sup> )    | 25.79 |
|                               | 47LP(O2)                | 71LV(Pb <sup>2+</sup> )    | 1.46  |                               | 52LP(O4)                  | 85BD*(O7H19)               | 39.07 |
|                               | 47LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 1.37  |                               | 53LP(O5)                  | 75BD*(O2H9)                | 10.05 |
|                               | 47LP(O2)                | 73LV(Pb <sup>2+</sup> )    | 1.15  |                               | 54LP(O5)                  | 75BD*(O2H9)                | 1.49  |
|                               | 48LP(O2)                | 71LV(Pb <sup>2+</sup> )    | 3.47  |                               | 54LP(O5)                  | 82BD*(O6H16)               | 18.73 |
|                               | 48LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 30.34 |                               | 55LP(O6)                  | 71LV(Pb <sup>2+</sup> )    | 1.25  |
|                               | 59BD(O2H8)              | 72LV(Pb <sup>2+</sup> )    | 1.21  |                               | 56LP(O6)                  | 71LV(Pb <sup>2+</sup> )    | 6.48  |
|                               | 49LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 4.16  |                               | 56LP(O6)                  | 72LV(Pb <sup>2+</sup> )    | 16.71 |
|                               | 50LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 12.78 |                               | 56LP(O6)                  | 73LV(Pb <sup>2+</sup> )    | 11.45 |
|                               | 50LP(O3)                | 73LV(Pb <sup>2+</sup> )    | 24.94 |                               | 57LP(O7)                  | 73LV(Pb <sup>2+</sup> )    | 2.36  |
|                               | 51LP(O4)                | 71LV(Pb <sup>2+</sup> )    | 1.44  |                               | 58LP(O7)                  | 71LV(Pb <sup>2+</sup> )    | 32.24 |
|                               | 51LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 1.38  |                               | 58LP(O7)                  | 72LV(Pb <sup>2+</sup> )    | 9.37  |
|                               | 51LP(O4)                | 73LV(Pb <sup>2+</sup> )    | 1.16  |                               | 58LP(O7)                  | 73LV(Pb <sup>2+</sup> )    | 1.9   |
|                               | 52LP(O4)                | 71LV(Pb <sup>2+</sup> )    | 3.41  |                               | 69BD(O7H18)               | 71LV(Pb <sup>2+</sup> )    | 1.12  |
|                               | 52LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 30.34 |                               | 70BD(O7H19)               | 71LV(Pb <sup>2+</sup> )    | 1.02  |
|                               | 63BD(O4H12)             | 72LV(Pb <sup>2+</sup> )    | 1.2   | W <sub>6</sub> S <sub>7</sub> | 46LP(Pb <sup>2+</sup> )   | 74BD*(O2H8)                | 0.23  |
|                               | 53LP(O5)                | 74BD*(O2H8)                | 10.18 |                               | 46LP(Pb <sup>2+</sup> )   | 77BD*(O4H10)               | 0.13  |
|                               | 54LP(O5)                | 74BD*(O2H8)                | 3.58  |                               | 50LP(O3)                  | 77BD*(O4H10)               | 95.09 |
|                               | 54LP(O5)                | 84BD*(O7H18)               | 13.59 |                               | 58BD(Pb <sup>2+</sup> O3) | 77BD*(O4H10)               | 3.4   |
|                               | 55LP(O6)                | 78BD*(O4H12)               | 10.07 |                               | 61BD(O3H11)               | 77BD*(O4H10)               | 2.52  |
|                               | 56LP(O6)                | 78BD*(O4H12)               | 3.68  |                               | 46LP(Pb <sup>2+</sup> )   | 84BD*(O7H18)               | 0.31  |
|                               | 55LP(O6)                | 85BD*(O7H19)               | 1.09  |                               | 46LP(Pb <sup>2+</sup> )   | 85BD*(O7H19)               | 0.2   |
|                               | 56LP(O6)                | 85BD*(O7H19)               | 13.49 |                               | 47LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 1.01  |
|                               | 57LP(O7)                | 73LV(Pb <sup>2+</sup> )    | 3.15  |                               | 47LP(O2)                  | 73BD*(Pb <sup>2+</sup> O3) | 1.21  |
|                               | 58LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 22.41 |                               | 48LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 17.65 |
|                               | 58LP(O7)                | 73LV(Pb <sup>2+</sup> )    | 14.53 |                               | 48LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 9.96  |
|                               | 69BD(O7H18)             | 71LV(Pb <sup>2+</sup> )    | 1.03  |                               | 53LP(O5)                  | 75BD*(O2H9)                | 42.87 |
|                               | 70BD(O7H19)             | 71LV(Pb <sup>2+</sup> )    | 1.03  |                               | 55LP(O6)                  | 78BD*(O4H12)               | 61.22 |
|                               | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.23  |                               | 67BD(O6H16)               | 78BD*(O4H12)               | 1.17  |
|                               | 49LP(O3)                | 83BD*(O6H17)               | 49.87 |                               | 68BD(O6H17)               | 78BD*(O4H12)               | 1.19  |
|                               | 51LP(O4)                | 85BD*(O7H19)               | 43.16 |                               | 56LP(O7)                  | 71LV(Pb <sup>2+</sup> )    | 2.76  |
|                               | 53LP(O5)                | 75BD*(O2H9)                | 49.8  |                               | 57LP(O7)                  | 71LV(Pb <sup>2+</sup> )    | 6.48  |
|                               | 55LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 1.04  |                               | 57LP(O7)                  | 72LV(Pb <sup>2+</sup> )    | 12.78 |
|                               | 55LP(O7)                | 73BD*(Pb <sup>2+</sup> O6) | 1.55  |                               | 46LP(Pb <sup>2+</sup> )   | 74BD*(O2H8)                | 0.21  |
|                               | 56LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 30.61 |                               | 46LP(Pb <sup>2+</sup> )   | 75BD*(O2H9)                | 0.29  |
|                               | 69BD(O7H18)             | 71LV(Pb <sup>2+</sup> )    | 2.25  |                               | 46LP(Pb <sup>2+</sup> )   | 76BD*(O3H10)               | 0.21  |
|                               | 70BD(O7H19)             | 71LV(Pb <sup>2+</sup> )    | 1.61  |                               | 46LP(Pb <sup>2+</sup> )   | 77BD*(O3H11)               | 0.34  |
| W <sub>6</sub> S <sub>5</sub> | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                | 0.18  |                               | 46LP(Pb <sup>2+</sup> )   | 80BD*(O5H14)               | 0.59  |
|                               | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                | 0.21  |                               | 46LP(Pb <sup>2+</sup> )   | 81BD*(O5H15)               | 0.19  |
|                               | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.36  |                               | 46LP(Pb <sup>2+</sup> )   | 82BD*(O6H16)               | 0.25  |
|                               | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.16  |                               | 46LP(Pb <sup>2+</sup> )   | 83BD*(O6H17)               | 0.29  |
|                               | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)               | 0.24  |                               | 47LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 1.38  |
|                               | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)               | 0.34  |                               | 47LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 2.72  |
|                               | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.71  |                               | 48LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 4.67  |
|                               | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.24  |                               | 48LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 14.35 |
|                               | 47LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 2.04  |                               | 48LP(O2)                  | 73LV(Pb <sup>2+</sup> )    | 15.11 |

|                               |                         |                         |       |                                |                           |                            |        |
|-------------------------------|-------------------------|-------------------------|-------|--------------------------------|---------------------------|----------------------------|--------|
| W <sub>6</sub> S <sub>8</sub> | 49LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 2.33  | W <sub>6</sub> S <sub>9</sub>  | 46LP(Pb <sup>2+</sup> )   | 76BD*(O3H10)               | 0.16   |
|                               | 49LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 1.54  |                                | 46LP(Pb <sup>2+</sup> )   | 77BD*(O3H11)               | 0.1    |
|                               | 50LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 30.53 |                                | 46LP(Pb <sup>2+</sup> )   | 78BD*(O4H12)               | 0.1    |
|                               | 50LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 7.03  |                                | 46LP(Pb <sup>2+</sup> )   | 79BD*(O4H13)               | 0.16   |
|                               | 50LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 3.99  |                                | 47LP(O2)                  | 77BD*(O3H11)               | 10.47  |
|                               | 62BD(O3H11)             | 71LV(Pb <sup>2+</sup> ) | 1.47  |                                | 48LP(O2)                  | 77BD*(O3H11)               | 16.75  |
|                               | 52LP(O4)                | 76BD*(O3H10)            | 34.38 |                                | 47LP(O2)                  | 78BD*(O4H12)               | 10.45  |
|                               | 53LP(O5)                | 73LV(Pb <sup>2+</sup> ) | 1.1   |                                | 48LP(O2)                  | 78BD*(O4H12)               | 16.83  |
|                               | 54LP(O5)                | 71LV(Pb <sup>2+</sup> ) | 4.22  |                                | 49LP(O3)                  | 73BD*(Pb <sup>2+</sup> O6) | 1.27   |
|                               | 54LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 21.62 |                                | 50LP(O3)                  | 71LV(Pb <sup>2+</sup> )    | 23     |
|                               | 54LP(O5)                | 73LV(Pb <sup>2+</sup> ) | 3.67  |                                | 50LP(O3)                  | 72LV(Pb <sup>2+</sup> )    | 13.84  |
|                               | 55LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 1.92  | W <sub>6</sub> S <sub>10</sub> | 62BD(O3H11)               | 71LV(Pb <sup>2+</sup> )    | 1.6    |
|                               | 56LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 12.41 |                                | 51LP(O4)                  | 73BD*(Pb <sup>2+</sup> O6) | 1.27   |
|                               | 56LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 2.91  |                                | 52LP(O4)                  | 71LV(Pb <sup>2+</sup> )    | 23.06  |
|                               | 56LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 20.75 |                                | 52LP(O4)                  | 72LV(Pb <sup>2+</sup> )    | 13.78  |
|                               | 57LP(O7)                | 77BD*(O3H11)            | 8.08  |                                | 63BD(O4H12)               | 71LV(Pb <sup>2+</sup> )    | 1.6    |
|                               | 58LP(O7)                | 82BD*(O6H16)            | 20.89 |                                | 54LP(O5)                  | 74BD*(O2H8)                | 36.86  |
|                               | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)             | 0.23  |                                | 57LP(O7)                  | 83BD*(O6H17)               | 49.36  |
|                               | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)             | 0.13  |                                | 46LP(Pb <sup>2+</sup> )   | 74BD*(O2H8)                | 0.19   |
|                               | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)            | 0.39  |                                | 46LP(Pb <sup>2+</sup> )   | 75BD*(O2H9)                | 0.23   |
|                               | 46LP(Pb <sup>2+</sup> ) | 80BD*(O5H14)            | 0.38  |                                | 46LP(Pb <sup>2+</sup> )   | 76BD*(O3H10)               | 0.29   |
|                               | 46LP(Pb <sup>2+</sup> ) | 81BD*(O5H15)            | 0.24  |                                | 46LP(Pb <sup>2+</sup> )   | 77BD*(O3H11)               | 0.2    |
|                               | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)            | 0.21  |                                | 46LP(Pb <sup>2+</sup> )   | 78BD*(O4H12)               | 0.21   |
|                               | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)            | 0.23  |                                | 46LP(Pb <sup>2+</sup> )   | 79BD*(O4H13)               | 0.58   |
|                               | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)            | 0.24  |                                | 46LP(Pb <sup>2+</sup> )   | 84BD*(O7H18)               | 0.23   |
|                               | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)            | 0.31  |                                | 46LP(Pb <sup>2+</sup> )   | 85BD*(O7H19)               | 0.33   |
|                               | 47LP(O2)                | 73LV(Pb <sup>2+</sup> ) | 3.69  |                                | 47LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 2.21   |
|                               | 48LP(O2)                | 71LV(Pb <sup>2+</sup> ) | 19.7  |                                | 47LP(O2)                  | 73LV(Pb <sup>2+</sup> )    | 2.18   |
|                               | 48LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 3.2   |                                | 48LP(O2)                  | 71LV(Pb <sup>2+</sup> )    | 22.3   |
|                               | 48LP(O2)                | 73LV(Pb <sup>2+</sup> ) | 24.81 |                                | 48LP(O2)                  | 72LV(Pb <sup>2+</sup> )    | 16.66  |
|                               | 49LP(O3)                | 82BD*(O6H16)            | 1.05  |                                | 48LP(O2)                  | 73LV(Pb <sup>2+</sup> )    | 2.56   |
|                               | 50LP(O3)                | 82BD*(O6H16)            | 13.74 |                                | 59BD(O2H8)                | 71LV(Pb <sup>2+</sup> )    | 1.12   |
|                               | 49LP(O3)                | 84BD*(O7H18)            | 9.97  |                                | 49LP(O3)                  | 71LV(Pb <sup>2+</sup> )    | 1.96   |
|                               | 50LP(O3)                | 84BD*(O7H18)            | 3.61  |                                | 49LP(O3)                  | 72LV(Pb <sup>2+</sup> )    | 1.4    |
|                               | 51LP(O4)                | 72LV(Pb <sup>2+</sup> ) | 3.38  |                                | 50LP(O3)                  | 71LV(Pb <sup>2+</sup> )    | 5.21   |
|                               | 51LP(O4)                | 73LV(Pb <sup>2+</sup> ) | 2.41  |                                | 50LP(O3)                  | 72LV(Pb <sup>2+</sup> )    | 3.54   |
|                               | 52LP(O4)                | 71LV(Pb <sup>2+</sup> ) | 4.04  |                                | 50LP(O3)                  | 73LV(Pb <sup>2+</sup> )    | 28.2   |
|                               | 52LP(O4)                | 72LV(Pb <sup>2+</sup> ) | 1.56  |                                | 51LP(O4)                  | 73LV(Pb <sup>2+</sup> )    | 1.2    |
|                               | 52LP(O4)                | 73LV(Pb <sup>2+</sup> ) | 40.12 |                                | 52LP(O4)                  | 71LV(Pb <sup>2+</sup> )    | 1.32   |
|                               | 64BD(O4H13)             | 73LV(Pb <sup>2+</sup> ) | 1.94  |                                | 52LP(O4)                  | 72LV(Pb <sup>2+</sup> )    | 30.64  |
|                               | 53LP(O5)                | 71LV(Pb <sup>2+</sup> ) | 1.4   |                                | 54LP(O5)                  | 83BD*(O6H17)               | 35.19  |
|                               | 53LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 1.82  |                                | 55LP(O6)                  | 74BD*(O2H8)                | 17.52  |
|                               | 54LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 48.07 |                                | 56LP(O6)                  | 74BD*(O2H8)                | 4.9    |
|                               | 55LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 1.84  |                                | 56LP(O6)                  | 84BD*(O7H18)               | 28.9   |
|                               | 55LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 1.78  |                                | 57LP(O7)                  | 71LV(Pb <sup>2+</sup> )    | 1.56   |
|                               | 56LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 50.27 |                                | 57LP(O7)                  | 72LV(Pb <sup>2+</sup> )    | 1.36   |
|                               | 56LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 4.05  |                                | 58LP(O7)                  | 71LV(Pb <sup>2+</sup> )    | 24.48  |
|                               | 56LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 6.61  |                                | 58LP(O7)                  | 72LV(Pb <sup>2+</sup> )    | 3.31   |
|                               | 67BD(O6H16)             | 71LV(Pb <sup>2+</sup> ) | 2.68  |                                | 58LP(O7)                  | 73LV(Pb <sup>2+</sup> )    | 11.11  |
|                               | 68BD(O6H17)             | 71LV(Pb <sup>2+</sup> ) | 1.23  |                                | 69BD(O7H18)               | 71LV(Pb <sup>2+</sup> )    | 1.05   |
|                               | 57LP(O7)                | 73LV(Pb <sup>2+</sup> ) | 2.32  | W <sub>6</sub> S <sub>11</sub> | 46LP(Pb <sup>2+</sup> )   | 75BD*(O3H8)                | 0.12   |
|                               | 58LP(O7)                | 71LV(Pb <sup>2+</sup> ) | 18.21 |                                | 48LP(O2)                  | 75BD*(O3H8)                | 111.88 |
|                               | 58LP(O7)                | 72LV(Pb <sup>2+</sup> ) | 38.1  |                                | 58BD(Pb <sup>2+</sup> O2) | 75BD*(O3H8)                | 4.7    |
|                               | 69BD(O7H18)             | 72LV(Pb <sup>2+</sup> ) | 2.03  |                                | 59BD(O2H9)                | 75BD*(O3H8)                | 2.68   |

|                                |                         |                            |       |                                |                         |                            |       |
|--------------------------------|-------------------------|----------------------------|-------|--------------------------------|-------------------------|----------------------------|-------|
| W <sub>6</sub> S <sub>12</sub> | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)               | 0.15  | W <sub>6</sub> S <sub>14</sub> | 48LP(O2)                | 71LV(Pb <sup>2+</sup> )    | 23.77 |
|                                | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)               | 0.16  |                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 2.36  |
|                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)               | 0.32  |                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 1.88  |
|                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)               | 0.14  |                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 4.12  |
|                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.34  |                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 21.97 |
|                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.14  |                                | 50LP(O3)                | 73BD*(Pb <sup>2+</sup> O6) | 1.39  |
|                                | 50LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 3.34  |                                | 52LP(O4)                | 75BD*(O2H9)                | 20.57 |
|                                | 50LP(O4)                | 73BD*(Pb <sup>2+</sup> O2) | 2.13  |                                | 51LP(O4)                | 81BD*(O5H15)               | 4.75  |
|                                | 51LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 28.1  |                                | 54LP(O5)                | 83BD*(O6H17)               | 48.68 |
|                                | 53LP(O5)                | 77BD*(O3H11)               | 50.95 |                                | 56LP(O7)                | 82BD*(O6H16)               | 10.11 |
|                                | 54LP(O6)                | 71LV(Pb <sup>2+</sup> )    | 1.27  |                                | 57LP(O7)                | 76BD*(O3H10)               | 18.72 |
|                                | 54LP(O6)                | 72LV(Pb <sup>2+</sup> )    | 2.19  |                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.33  |
|                                | 55LP(O6)                | 71LV(Pb <sup>2+</sup> )    | 25.07 |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.16  |
|                                | 55LP(O6)                | 72LV(Pb <sup>2+</sup> )    | 1.62  |                                | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)               | 0.23  |
|                                | 56LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 1.2   |                                | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)               | 0.22  |
|                                | 56LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 2.15  |                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.16  |
|                                | 57LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 24.75 |                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.35  |
|                                | 57LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 1.67  |                                | 48LP(O2)                | 81BD*(O5H15)               | 33.16 |
|                                | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                | 0.2   |                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 1.25  |
|                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                | 0.29  |                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 2.69  |
|                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.25  |                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 25.5  |
|                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.31  |                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 3.37  |
|                                | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)               | 0.21  |                                | 51LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 2.73  |
|                                | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)               | 0.54  |                                | 51LP(O4)                | 73BD*(Pb <sup>2+</sup> O5) | 1.86  |
|                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.3   |                                | 52LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 31.9  |
|                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.33  |                                | 55LP(O6)                | 80BD*(O5H14)               | 33.97 |
|                                | 47LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 3.12  |                                | 56LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 1.87  |
|                                | 48LP(O2)                | 71LV(Pb <sup>2+</sup> )    | 13.31 |                                | 56LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 1.98  |
|                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 5.66  |                                | 57LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 28.07 |
|                                | 48LP(O2)                | 73LV(Pb <sup>2+</sup> )    | 17    | W <sub>6</sub> S <sub>15</sub> | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.16  |
|                                | 60BD(O2H9)              | 71LV(Pb <sup>2+</sup> )    | 1.37  |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.46  |
|                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 1.4   |                                | 46LP(Pb <sup>2+</sup> ) | 80BD*(O5H14)               | 0.21  |
|                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 1.59  |                                | 46LP(Pb <sup>2+</sup> ) | 81BD*(O5H15)               | 0.38  |
|                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 19.89 |                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.33  |
|                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 3.02  |                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.25  |
|                                | 50LP(O3)                | 73LV(Pb <sup>2+</sup> )    | 15.47 |                                | 48LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 2.67  |
|                                | 51LP(O4)                | 73LV(Pb <sup>2+</sup> )    | 1.89  |                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> )    | 29.54 |
|                                | 52LP(O4)                | 71LV(Pb <sup>2+</sup> )    | 2.73  |                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> )    | 3.54  |
|                                | 52LP(O4)                | 72LV(Pb <sup>2+</sup> )    | 28.36 |                                | 62BD(O3H11)             | 71LV(Pb <sup>2+</sup> )    | 1.78  |
|                                | 52LP(O4)                | 73LV(Pb <sup>2+</sup> )    | 2.3   |                                | 51LP(O4)                | 75BD*(O2H9)                | 55    |
|                                | 54LP(O5)                | 76BD*(O3H10)               | 21.53 |                                | 63BD(O4H12)             | 75BD*(O2H9)                | 1.02  |
|                                | 53LP(O5)                | 85BD*(O7H19)               | 11.54 |                                | 64BD(O4H13)             | 75BD*(O2H9)                | 1.17  |
|                                | 54LP(O5)                | 85BD*(O7H19)               | 1.1   |                                | 52LP(O5)                | 71LV(Pb <sup>2+</sup> )    | 1.57  |
|                                | 56LP(O6)                | 75BD*(O2H9)                | 16.87 |                                | 52LP(O5)                | 72LV(Pb <sup>2+</sup> )    | 1.84  |
|                                | 55LP(O6)                | 81BD*(O5H15)               | 6.43  |                                | 53LP(O5)                | 71LV(Pb <sup>2+</sup> )    | 29.26 |
|                                | 57LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 1.65  |                                | 55LP(O6)                | 77BD*(O3H11)               | 15.27 |
|                                | 57LP(O7)                | 73LV(Pb <sup>2+</sup> )    | 1.58  |                                | 54LP(O6)                | 79BD*(O4H13)               | 8.85  |
|                                | 58LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 20.68 |                                | 56LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 1.65  |
|                                | 58LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 18.82 |                                | 56LP(O7)                | 73BD*(Pb <sup>2+</sup> O2) | 1.74  |
| W <sub>6</sub> S <sub>13</sub> | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                | 0.25  |                                | 57LP(O7)                | 72LV(Pb <sup>2+</sup> )    | 37.03 |
|                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                | 0.44  | W <sub>6</sub> S <sub>16</sub> | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)                | 0.56  |
|                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.27  |                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)                | 0.14  |
|                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.36  |                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)               | 0.15  |
|                                | 47LP(O2)                | 72LV(Pb <sup>2+</sup> )    | 1.75  |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)               | 0.28  |

|                                |                         |                         |       |                                |                         |                         |       |
|--------------------------------|-------------------------|-------------------------|-------|--------------------------------|-------------------------|-------------------------|-------|
| W <sub>6</sub> S <sub>17</sub> | 46LP(Pb <sup>2+</sup> ) | 80BD*(O5H14)            | 0.16  | W <sub>6</sub> S <sub>18</sub> | 52LP(O4)                | 73LV(Pb <sup>2+</sup> ) | 33.36 |
|                                | 46LP(Pb <sup>2+</sup> ) | 81BD*(O5H15)            | 0.25  |                                | 64BD(O4H13)             | 73LV(Pb <sup>2+</sup> ) | 2.06  |
|                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)            | 0.53  |                                | 53LP(O5)                | 71LV(Pb <sup>2+</sup> ) | 1.53  |
|                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)            | 0.35  |                                | 53LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 2.2   |
|                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)            | 0.29  |                                | 54LP(O5)                | 71LV(Pb <sup>2+</sup> ) | 62.93 |
|                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)            | 0.2   |                                | 54LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 1.97  |
|                                | 47LP(O2)                | 71LV(Pb <sup>2+</sup> ) | 1.41  |                                | 54LP(O5)                | 73LV(Pb <sup>2+</sup> ) | 9.68  |
|                                | 47LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 1.1   |                                | 55LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 1.96  |
|                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 28.35 |                                | 55LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 2     |
|                                | 48LP(O2)                | 73LV(Pb <sup>2+</sup> ) | 22.43 |                                | 56LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 13.81 |
|                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 2.69  |                                | 56LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 31.8  |
|                                | 49LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 1.9   |                                | 56LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 32.82 |
|                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 49.21 |                                | 67BD(O6H16)             | 72LV(Pb <sup>2+</sup> ) | 1.06  |
|                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 4.61  |                                | 68BD(O6H17)             | 73LV(Pb <sup>2+</sup> ) | 2.02  |
|                                | 52LP(O4)                | 83BD*(O6H17)            | 37.47 |                                | 57LP(O7)                | 71LV(Pb <sup>2+</sup> ) | 3.49  |
|                                | 53LP(O5)                | 73LV(Pb <sup>2+</sup> ) | 2.5   |                                | 57LP(O7)                | 73LV(Pb <sup>2+</sup> ) | 1.1   |
|                                | 54LP(O5)                | 71LV(Pb <sup>2+</sup> ) | 31.41 |                                | 58LP(O7)                | 71LV(Pb <sup>2+</sup> ) | 28.29 |
|                                | 54LP(O5)                | 72LV(Pb <sup>2+</sup> ) | 10.88 |                                | 58LP(O7)                | 72LV(Pb <sup>2+</sup> ) | 37.91 |
|                                | 54LP(O5)                | 73LV(Pb <sup>2+</sup> ) | 7.7   |                                | 58LP(O7)                | 73LV(Pb <sup>2+</sup> ) | 8.3   |
|                                | 55LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 3.76  |                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)            | 0.24  |
|                                | 56LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 8.62  |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)            | 0.29  |
|                                | 56LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 48.94 |                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)            | 0.43  |
|                                | 56LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 10.82 |                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)            | 0.29  |
|                                | 67BD(O6H16)             | 72LV(Pb <sup>2+</sup> ) | 1.29  |                                | 48LP(O2)                | 78BD*(O4H12)            | 16.8  |
|                                | 68BD(O6H17)             | 72LV(Pb <sup>2+</sup> ) | 1.69  |                                | 47LP(O2)                | 85BD*(O7H19)            | 9.3   |
|                                | 57LP(O7)                | 72LV(Pb <sup>2+</sup> ) | 2.75  |                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 1.01  |
|                                | 58LP(O7)                | 71LV(Pb <sup>2+</sup> ) | 2.79  |                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 22.26 |
|                                | 58LP(O7)                | 72LV(Pb <sup>2+</sup> ) | 4     |                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 6.23  |
|                                | 58LP(O7)                | 73LV(Pb <sup>2+</sup> ) | 32.18 |                                | 51LP(O4)                | 76BD*(O3H10)            | 12.87 |
|                                | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)             | 0.37  |                                | 52LP(O4)                | 76BD*(O3H10)            | 6.76  |
|                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)             | 0.29  |                                | 51LP(O4)                | 83BD*(O6H17)            | 2.62  |
|                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)            | 0.27  |                                | 52LP(O4)                | 83BD*(O6H17)            | 16.9  |
|                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)            | 0.47  |                                | 55LP(O6)                | 71LV(Pb <sup>2+</sup> ) | 13.19 |
|                                | 46LP(Pb <sup>2+</sup> ) | 78BD*(O4H12)            | 0.49  |                                | 55LP(O6)                | 72LV(Pb <sup>2+</sup> ) | 16.87 |
|                                | 46LP(Pb <sup>2+</sup> ) | 79BD*(O4H13)            | 0.25  |                                | 57LP(O7)                | 81BD*(O5H15)            | 52.93 |
|                                | 46LP(Pb <sup>2+</sup> ) | 80BD*(O5H14)            | 0.29  |                                | 70BD(O7H19)             | 81BD*(O5H15)            | 1.07  |
|                                | 46LP(Pb <sup>2+</sup> ) | 81BD*(O5H15)            | 0.37  | W <sub>6</sub> S <sub>19</sub> | 46LP(Pb <sup>2+</sup> ) | 74BD*(O2H8)             | 0.6   |
|                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)            | 0.48  |                                | 46LP(Pb <sup>2+</sup> ) | 75BD*(O2H9)             | 0.23  |
|                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)            | 0.26  |                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O3H10)            | 0.32  |
|                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)            | 0.38  |                                | 46LP(Pb <sup>2+</sup> ) | 77BD*(O3H11)            | 0.22  |
|                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)            | 0.29  |                                | 46LP(Pb <sup>2+</sup> ) | 82BD*(O6H16)            | 0.24  |
|                                | 47LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 3.17  |                                | 46LP(Pb <sup>2+</sup> ) | 83BD*(O6H17)            | 0.37  |
|                                | 48LP(O2)                | 71LV(Pb <sup>2+</sup> ) | 8.09  |                                | 47LP(O2)                | 73LV(Pb <sup>2+</sup> ) | 2.18  |
|                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 57.83 |                                | 48LP(O2)                | 71LV(Pb <sup>2+</sup> ) | 13.27 |
|                                | 48LP(O2)                | 73LV(Pb <sup>2+</sup> ) | 8.79  |                                | 48LP(O2)                | 72LV(Pb <sup>2+</sup> ) | 20.28 |
|                                | 49LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 1.85  |                                | 49LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 1.21  |
|                                | 49LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 1.86  |                                | 49LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 1.78  |
|                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 42.94 |                                | 50LP(O3)                | 71LV(Pb <sup>2+</sup> ) | 16.64 |
|                                | 50LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 35.81 |                                | 50LP(O3)                | 72LV(Pb <sup>2+</sup> ) | 3.38  |
|                                | 61BD(O3H10)             | 73LV(Pb <sup>2+</sup> ) | 2.07  |                                | 50LP(O3)                | 73LV(Pb <sup>2+</sup> ) | 10.73 |
|                                | 51LP(O4)                | 72LV(Pb <sup>2+</sup> ) | 1.27  |                                | 52LP(O4)                | 81BD*(O5H15)            | 34.59 |
|                                | 51LP(O4)                | 73LV(Pb <sup>2+</sup> ) | 1.88  |                                | 54LP(O5)                | 74BD*(O2H8)             | 36.84 |
|                                | 52LP(O4)                | 71LV(Pb <sup>2+</sup> ) | 10.14 |                                | 53LP(O5)                | 84BD*(O7H18)            | 15.08 |
|                                | 52LP(O4)                | 72LV(Pb <sup>2+</sup> ) | 35.37 |                                | 55LP(O6)                | 73LV(Pb <sup>2+</sup> ) | 1.37  |

|                                |                         |                            |       |                                |                         |                            |       |
|--------------------------------|-------------------------|----------------------------|-------|--------------------------------|-------------------------|----------------------------|-------|
| W <sub>6</sub> S <sub>20</sub> | 56LP(O6)                | 71LV(Pb <sup>2+</sup> )    | 15.31 | W <sub>7</sub> S <sub>17</sub> | 56LP(O6)                | 78BD*(Pb <sup>2+</sup> O3) | 0.84  |
|                                | 56LP(O6)                | 72LV(Pb <sup>2+</sup> )    | 2.76  |                                | 70BD(O6H17)             | 77LV(Pb <sup>2+</sup> )    | 0.37  |
|                                | 56LP(O6)                | 73LV(Pb <sup>2+</sup> )    | 12.76 |                                | 70BD(O6H17)             | 78BD*(Pb <sup>2+</sup> O3) | 0.26  |
|                                | 57LP(O7)                | 77BD*(O3H11)               | 4.68  |                                | 71BD(O6H18)             | 76LV(Pb <sup>2+</sup> )    | 0.12  |
|                                | 58LP(O7)                | 77BD*(O3H11)               | 14.06 |                                | 71BD(O6H18)             | 77LV(Pb <sup>2+</sup> )    | 1.14  |
|                                | 57LP(O7)                | 82BD*(O6H16)               | 11.47 |                                | 71BD(O6H18)             | 78BD*(Pb <sup>2+</sup> O3) | 0.12  |
|                                | 58LP(O7)                | 82BD*(O6H16)               | 8.58  |                                | 57LP(O7)                | 76LV(Pb <sup>2+</sup> )    | 1.24  |
|                                | 46LP(Pb <sup>2+</sup> ) | 76BD*(O2H10)               | 0.2   |                                | 57LP(O7)                | 77LV(Pb <sup>2+</sup> )    | 0.19  |
|                                | 46LP(Pb <sup>2+</sup> ) | 84BD*(O7H18)               | 0.71  |                                | 57LP(O7)                | 78BD*(Pb <sup>2+</sup> O3) | 1.52  |
|                                | 46LP(Pb <sup>2+</sup> ) | 85BD*(O7H19)               | 0.2   |                                | 58LP(O7)                | 76LV(Pb <sup>2+</sup> )    | 24.34 |
|                                | 48LP(O3)                | 76BD*(O2H10)               | 16.13 |                                | 58LP(O7)                | 77LV(Pb <sup>2+</sup> )    | 7.75  |
|                                | 49LP(O3)                | 76BD*(O2H10)               | 7.13  |                                | 72BD(O7H19)             | 76LV(Pb <sup>2+</sup> )    | 0.5   |
|                                | 50LP(O4)                | 74BD*(O2H8)                | 0.56  |                                | 72BD(O7H19)             | 78BD*(Pb <sup>2+</sup> O3) | 0.3   |
|                                | 51LP(O4)                | 74BD*(O2H8)                | 57.96 |                                | 73BD(O7H20)             | 76LV(Pb <sup>2+</sup> )    | 1.17  |
|                                | 52LP(O5)                | 82BD*(O6H16)               | 0.33  |                                | 73BD(O7H20)             | 77LV(Pb <sup>2+</sup> )    | 0.19  |
|                                | 53LP(O5)                | 82BD*(O6H16)               | 35.23 |                                | 59LP(O8)                | 79BD*(O2H9)                | 1.8   |
|                                | 54LP(O6)                | 75BD*(O2H9)                | 25.93 |                                | 60LP(O8)                | 79BD*(O2H9)                | 11.61 |
|                                | 54LP(O6)                | 84BD*(O7H18)               | 1.25  |                                | 59LP(O8)                | 88BD*(O6H18)               | 8.54  |
|                                | 55LP(O6)                | 84BD*(O7H18)               | 29.61 |                                | 60LP(O8)                | 88BD*(O6H18)               | 4.41  |
|                                | 56LP(O7)                | 72V(Pb <sup>2+</sup> )     | 3.42  |                                | 69BD(O5H16)             | 83BD*(O4H13)               | 0.19  |
|                                | 57LP(O7)                | 71LV(Pb <sup>2+</sup> )    | 24.24 |                                | 69BD(O5H16)             | 84BD*(O4H14)               | 0.19  |
|                                | 57LP(O7)                | 73BD*(Pb <sup>2+</sup> O3) | 0.23  |                                | 47LP(Pb <sup>2+</sup> ) | 87BD*(O6H17)               | 0.29  |
|                                | 70BD(O7H19)             | 71LV(Pb <sup>2+</sup> )    | 0.22  |                                | 47LP(Pb <sup>2+</sup> ) | 88BD*(O6H18)               | 0.22  |
| W <sub>7</sub> S <sub>1</sub>  | 47LP(Pb <sup>2+</sup> ) | 79BD*(O2H9)                | 0.31  |                                | 47LP(Pb <sup>2+</sup> ) | 90BD*(O7H20)               | 0.21  |
|                                | 47LP(Pb <sup>2+</sup> ) | 80BD*(O2H10)               | 0.3   |                                | 63BD(O2H10)             | 81BD*(O3H11)               | 0.23  |
|                                | 65BD(O3H12)             | 83BD*(O4H13)               | 0.23  |                                | 63BD(O2H10)             | 82BD*(O3H12)               | 0.26  |
|                                | 65BD(O3H12)             | 84BD*(O4H14)               | 0.24  |                                | 48LP(O2)                | 83BD*(O4H13)               | 16.81 |
|                                | 47LP(Pb <sup>2+</sup> ) | 87BD*(O6H17)               | 0.21  |                                | 49LP(O2)                | 83BD*(O4H13)               | 0.73  |
|                                | 47LP(Pb <sup>2+</sup> ) | 88BD*(O6H18)               | 0.2   |                                | 49LP(O2)                | 92BD*(O8H22)               | 26.52 |
|                                | 47LP(Pb <sup>2+</sup> ) | 89BD*(O7H19)               | 0.29  |                                | 63BD(O2H10)             | 92BD*(O8H22)               | 0.15  |
|                                | 47LP(Pb <sup>2+</sup> ) | 90BD*(O7H20)               | 0.28  |                                | 50LP(O3)                | 80BD*(O2H10)               | 0.26  |
|                                | 48LP(O2)                | 78BD*(Pb <sup>2+</sup> O3) | 1.12  |                                | 51LP(O3)                | 80BD*(O2H10)               | 29.08 |
|                                | 49LP(O2)                | 76LV(Pb <sup>2+</sup> )    | 14.91 |                                | 52LP(O4)                | 86BD*(O5H16)               | 0.83  |
|                                | 49LP(O2)                | 77LV(Pb <sup>2+</sup> )    | 16.88 |                                | 53LP(O4)                | 86BD*(O5H16)               | 57.19 |
|                                | 62BD(O2H9)              | 76LV(Pb <sup>2+</sup> )    | 0.41  |                                | 66BD(O4H13)             | 86BD*(O5H16)               | 1.27  |
|                                | 62BD(O2H9)              | 77LV(Pb <sup>2+</sup> )    | 0.98  |                                | 67BD(O4H14)             | 86BD*(O5H16)               | 1.11  |
|                                | 63BD(O2H10)             | 76LV(Pb <sup>2+</sup> )    | 0.92  |                                | 55LP(O6)                | 76LV(Pb <sup>2+</sup> )    | 0.49  |
|                                | 63BD(O2H10)             | 77LV(Pb <sup>2+</sup> )    | 0.5   |                                | 55LP(O6)                | 77LV(Pb <sup>2+</sup> )    | 1.21  |
|                                | 63BD(O2H10)             | 85BD*(O5H15)               | 0.12  |                                | 55LP(O6)                | 78BD*(Pb <sup>2+</sup> O5) | 0.95  |
|                                | 63BD(O2H10)             | 86BD*(O5H16)               | 0.11  |                                | 56LP(O6)                | 76LV(Pb <sup>2+</sup> )    | 21.88 |
|                                | 62BD(O2H9)              | 91BD*(O8H21)               | 0.12  |                                | 56LP(O6)                | 77LV(Pb <sup>2+</sup> )    | 7.1   |
|                                | 62BD(O2H9)              | 92BD*(O8H22)               | 0.11  |                                | 56LP(O6)                | 78BD*(Pb <sup>2+</sup> O5) | 0.59  |
|                                | 51LP(O4)                | 82BD*(O3H12)               | 0.52  |                                | 70BD(O6H17)             | 76LV(Pb <sup>2+</sup> )    | 0.17  |
|                                | 52LP(O4)                | 82BD*(O3H12)               | 37.92 |                                | 70BD(O6H17)             | 77LV(Pb <sup>2+</sup> )    | 0.14  |
|                                | 53LP(O5)                | 80BD*(O2H10)               | 0.86  |                                | 71BD(O6H18)             | 76LV(Pb <sup>2+</sup> )    | 0.43  |
|                                | 54LP(O5)                | 80BD*(O2H10)               | 13.04 |                                | 71BD(O6H18)             | 91BD*(O8H21)               | 0.14  |
|                                | 53LP(O5)                | 90BD*(O7H20)               | 9.53  |                                | 57LP(O7)                | 76LV(Pb <sup>2+</sup> )    | 1.14  |
|                                | 54LP(O5)                | 90BD*(O7H20)               | 3.21  |                                | 57LP(O7)                | 77LV(Pb <sup>2+</sup> )    | 0.72  |
|                                | 55LP(O6)                | 76LV(Pb <sup>2+</sup> )    | 0.25  |                                | 57LP(O7)                | 78BD*(Pb <sup>2+</sup> O5) | 0.69  |
|                                | 55LP(O6)                | 77LV(Pb <sup>2+</sup> )    | 1.96  |                                | 58LP(O7)                | 76LV(Pb <sup>2+</sup> )    | 17.36 |
|                                | 55LP(O6)                | 78BD*(Pb <sup>2+</sup> O3) | 1.91  |                                | 58LP(O7)                | 77LV(Pb <sup>2+</sup> )    | 19.62 |
|                                | 56LP(O6)                | 76LV(Pb <sup>2+</sup> )    | 7.91  |                                | 58LP(O7)                | 78BD*(Pb <sup>2+</sup> O5) | 1.28  |
|                                | 56LP(O6)                | 77LV(Pb <sup>2+</sup> )    | 21.03 |                                | 72BD(O7H19)             | 76LV(Pb <sup>2+</sup> )    | 1.23  |
|                                |                         |                            |       |                                | 72BD(O7H19)             | 77LV(Pb <sup>2+</sup> )    | 0.58  |

|                                |                         |                         |       |             |                         |       |
|--------------------------------|-------------------------|-------------------------|-------|-------------|-------------------------|-------|
| W <sub>7</sub> S <sub>18</sub> | 73BD(O7H20)             | 76LV(Pb <sup>2+</sup> ) | 0.46  | 52LP(O4)    | 77LV(Pb <sup>2+</sup> ) | 0.15  |
|                                | 73BD(O7H20)             | 77LV(Pb <sup>2+</sup> ) | 1.04  | 52LP(O4)    | 78LV(Pb <sup>2+</sup> ) | 3.23  |
|                                | 72BD(O7H19)             | 91BD*(O8H21)            | 0.14  | 53LP(O4)    | 76LV(Pb <sup>2+</sup> ) | 88.42 |
|                                | 72BD(O7H19)             | 92BD*(O8H22)            | 0.1   | 53LP(O4)    | 78LV(Pb <sup>2+</sup> ) | 1.28  |
|                                | 75BD(O8H22)             | 79BD*(O2H9)             | 0.13  | 66BD(O4H13) | 76LV(Pb <sup>2+</sup> ) | 0.95  |
|                                | 59LP(O8)                | 88BD*(O6H18)            | 15.05 | 66BD(O4H13) | 77LV(Pb <sup>2+</sup> ) | 0.18  |
|                                | 60LP(O8)                | 88BD*(O6H18)            | 7.57  | 66BD(O4H13) | 78LV(Pb <sup>2+</sup> ) | 0.48  |
|                                | 59LP(O8)                | 89BD*(O7H19)            | 2.79  | 67BD(O4H14) | 76LV(Pb <sup>2+</sup> ) | 0.68  |
|                                | 60LP(O8)                | 89BD*(O7H19)            | 20.31 | 67BD(O4H14) | 77LV(Pb <sup>2+</sup> ) | 0.23  |
|                                | 60LP(O8)                | 90BD*(O7H20)            | 0.12  | 53LP(O4)    | 80BD*(O2H10)            | 0.15  |
|                                | 47LP(Pb <sup>2+</sup> ) | 79BD*(O2H9)             | 0.19  | 52LP(O4)    | 85BD*(O5H15)            | 0.25  |
|                                | 47LP(Pb <sup>2+</sup> ) | 80BD*(O2H10)            | 0.46  | 53LP(O4)    | 88BD*(O6H18)            | 0.18  |
|                                | 47LP(Pb <sup>2+</sup> ) | 82BD*(O3H12)            | 0.48  | 53LP(O4)    | 91BD*(O8H21)            | 0.21  |
|                                | 47LP(Pb <sup>2+</sup> ) | 83BD*(O4H13)            | 0.47  | 53LP(O4)    | 92BD*(O8H22)            | 0.2   |
|                                | 47LP(Pb <sup>2+</sup> ) | 84BD*(O4H14)            | 0.14  | 54LP(O5)    | 76LV(Pb <sup>2+</sup> ) | 1.1   |
|                                | 47LP(Pb <sup>2+</sup> ) | 85BD*(O5H15)            | 0.1   | 54LP(O5)    | 77LV(Pb <sup>2+</sup> ) | 1.36  |
|                                | 47LP(Pb <sup>2+</sup> ) | 86BD*(O5H16)            | 0.67  | 54LP(O5)    | 78LV(Pb <sup>2+</sup> ) | 6.65  |
|                                | 47LP(Pb <sup>2+</sup> ) | 87BD*(O6H17)            | 0.14  | 55LP(O5)    | 76LV(Pb <sup>2+</sup> ) | 24.16 |
|                                | 47LP(Pb <sup>2+</sup> ) | 88BD*(O6H18)            | 0.53  | 55LP(O5)    | 77LV(Pb <sup>2+</sup> ) | 24.3  |
|                                | 47LP(Pb <sup>2+</sup> ) | 89BD*(O7H19)            | 0.44  | 55LP(O5)    | 78LV(Pb <sup>2+</sup> ) | 48.37 |
|                                | 47LP(Pb <sup>2+</sup> ) | 90BD*(O7H20)            | 0.15  | 68BD(O5H15) | 77LV(Pb <sup>2+</sup> ) | 0.86  |
|                                | 47LP(Pb <sup>2+</sup> ) | 91BD*(O8H21)            | 0.14  | 68BD(O5H15) | 78LV(Pb <sup>2+</sup> ) | 1.42  |
|                                | 47LP(Pb <sup>2+</sup> ) | 92BD*(O8H22)            | 0.52  | 69BD(O5H16) | 76LV(Pb <sup>2+</sup> ) | 0.6   |
|                                | 48LP(O2)                | 76LV(Pb <sup>2+</sup> ) | 2.26  | 69BD(O5H16) | 78LV(Pb <sup>2+</sup> ) | 0.89  |
|                                | 48LP(O2)                | 77LV(Pb <sup>2+</sup> ) | 0.57  | 55LP(O5)    | 81BD*(O3H11)            | 0.17  |
|                                | 48LP(O2)                | 78LV(Pb <sup>2+</sup> ) | 3.39  | 55LP(O5)    | 82BD*(O3H12)            | 0.19  |
|                                | 49LP(O2)                | 76LV(Pb <sup>2+</sup> ) | 3.49  | 55LP(O5)    | 87BD*(O6H17)            | 0.1   |
|                                | 49LP(O2)                | 77LV(Pb <sup>2+</sup> ) | 28.2  | 55LP(O5)    | 88BD*(O6H18)            | 0.16  |
|                                | 49LP(O2)                | 78LV(Pb <sup>2+</sup> ) | 81.56 | 55LP(O5)    | 91BD*(O8H21)            | 0.14  |
|                                | 62BD(O2H9)              | 78LV(Pb <sup>2+</sup> ) | 1.77  | 56LP(O6)    | 76LV(Pb <sup>2+</sup> ) | 0.42  |
|                                | 63BD(O2H10)             | 76LV(Pb <sup>2+</sup> ) | 0.62  | 56LP(O6)    | 77LV(Pb <sup>2+</sup> ) | 3.49  |
|                                | 63BD(O2H10)             | 77LV(Pb <sup>2+</sup> ) | 0.15  | 56LP(O6)    | 78LV(Pb <sup>2+</sup> ) | 2.49  |
|                                | 63BD(O2H10)             | 78LV(Pb <sup>2+</sup> ) | 0.34  | 57LP(O6)    | 76LV(Pb <sup>2+</sup> ) | 62.12 |
|                                | 49LP(O2)                | 81BD*(O3H11)            | 0.2   | 57LP(O6)    | 77LV(Pb <sup>2+</sup> ) | 45.64 |
|                                | 49LP(O2)                | 82BD*(O3H12)            | 0.46  | 57LP(O6)    | 78LV(Pb <sup>2+</sup> ) | 0.29  |
|                                | 49LP(O2)                | 83BD*(O4H13)            | 0.2   | 70BD(O6H17) | 76LV(Pb <sup>2+</sup> ) | 0.82  |
|                                | 49LP(O2)                | 84BD*(O4H14)            | 0.14  | 70BD(O6H17) | 77LV(Pb <sup>2+</sup> ) | 2.05  |
|                                | 49LP(O2)                | 90BD*(O7H20)            | 0.17  | 71BD(O6H18) | 76LV(Pb <sup>2+</sup> ) | 0.84  |
|                                | 50LP(O3)                | 76LV(Pb <sup>2+</sup> ) | 5.76  | 71BD(O6H18) | 77LV(Pb <sup>2+</sup> ) | 0.26  |
|                                | 50LP(O3)                | 77LV(Pb <sup>2+</sup> ) | 0.71  | 71BD(O6H18) | 78LV(Pb <sup>2+</sup> ) | 0.13  |
|                                | 50LP(O3)                | 78LV(Pb <sup>2+</sup> ) | 0.47  | 57LP(O6)    | 79BD*(O2H9)             | 0.19  |
|                                | 51LP(O3)                | 76LV(Pb <sup>2+</sup> ) | 15.06 | 57LP(O6)    | 83BD*(O4H13)            | 0.18  |
|                                | 51LP(O3)                | 77LV(Pb <sup>2+</sup> ) | 89.41 | 57LP(O6)    | 85BD*(O5H15)            | 0.14  |
|                                | 51LP(O3)                | 78LV(Pb <sup>2+</sup> ) | 0.19  | 57LP(O6)    | 86BD*(O5H16)            | 0.23  |
|                                | 64BD(O3H11)             | 76LV(Pb <sup>2+</sup> ) | 0.31  | 58LP(O7)    | 76LV(Pb <sup>2+</sup> ) | 5.84  |
|                                | 64BD(O3H11)             | 77LV(Pb <sup>2+</sup> ) | 1.31  | 58LP(O7)    | 77LV(Pb <sup>2+</sup> ) | 0.61  |
|                                | 65BD(O3H12)             | 76LV(Pb <sup>2+</sup> ) | 0.79  | 59LP(O7)    | 76LV(Pb <sup>2+</sup> ) | 69.12 |
|                                | 65BD(O3H12)             | 77LV(Pb <sup>2+</sup> ) | 0.58  | 59LP(O7)    | 77LV(Pb <sup>2+</sup> ) | 13.22 |
|                                | 65BD(O3H12)             | 78LV(Pb <sup>2+</sup> ) | 0.51  | 59LP(O7)    | 78LV(Pb <sup>2+</sup> ) | 24.72 |
|                                | 51LP(O3)                | 79BD*(O2H9)             | 0.25  | 72BD(O7H19) | 76LV(Pb <sup>2+</sup> ) | 0.84  |
|                                | 51LP(O3)                | 80BD*(O2H10)            | 0.28  | 72BD(O7H19) | 78LV(Pb <sup>2+</sup> ) | 0.2   |
|                                | 51LP(O3)                | 84BD*(O4H14)            | 0.16  | 73BD(O7H20) | 76LV(Pb <sup>2+</sup> ) | 2.21  |
|                                | 51LP(O3)                | 85BD*(O5H15)            | 0.13  | 73BD(O7H20) | 77LV(Pb <sup>2+</sup> ) | 0.32  |
|                                | 52LP(O4)                | 76LV(Pb <sup>2+</sup> ) | 4.41  | 59LP(O7)    | 82BD*(O3H12)            | 0.11  |

|                                |                           |                            |       |                               |                         |                            |       |
|--------------------------------|---------------------------|----------------------------|-------|-------------------------------|-------------------------|----------------------------|-------|
| W <sub>7</sub> S <sub>19</sub> | 59LP(O7)                  | 86BD*(O5H16)               | 0.17  | W <sub>8</sub> S <sub>1</sub> | 60LP(O8)                | 78BD*(Pb <sup>2+</sup> O4) | 0.39  |
|                                | 59LP(O7)                  | 87BD*(O6H17)               | 0.15  |                               | 75BD(O8H22)             | 76LV(Pb <sup>2+</sup> )    | 0.42  |
|                                | 59LP(O7)                  | 91BD*(O8H21)               | 0.25  |                               | 74BD(O8H21)             | 90BD*(O7H20)               | 0.18  |
|                                | 59LP(O7)                  | 92BD*(O8H22)               | 0.39  |                               |                         |                            |       |
|                                | 60LP(O8)                  | 76LV(Pb <sup>2+</sup> )    | 1.69  |                               | 48LP(Pb <sup>2+</sup> ) | 92BD*(O6H18)               | 0.28  |
|                                | 60LP(O8)                  | 77LV(Pb <sup>2+</sup> )    | 5.15  |                               | 48LP(Pb <sup>2+</sup> ) | 93BD*(O6H19)               | 0.28  |
|                                | 60LP(O8)                  | 78LV(Pb <sup>2+</sup> )    | 1.64  |                               | 48LP(Pb <sup>2+</sup> ) | 94BD*(O7H20)               | 0.28  |
|                                | 61LP(O8)                  | 76LV(Pb <sup>2+</sup> )    | 2.16  |                               | 48LP(Pb <sup>2+</sup> ) | 95BD*(O7H21)               | 0.28  |
|                                | 61LP(O8)                  | 77LV(Pb <sup>2+</sup> )    | 18.36 |                               | 48LP(Pb <sup>2+</sup> ) | 96BD*(O8H22)               | 0.28  |
|                                | 61LP(O8)                  | 78LV(Pb <sup>2+</sup> )    | 75.35 |                               | 48LP(Pb <sup>2+</sup> ) | 97BD*(O8H23)               | 0.28  |
|                                | 74BD(O8H21)               | 76LV(Pb <sup>2+</sup> )    | 0.41  |                               | 48LP(Pb <sup>2+</sup> ) | 98BD*(O9H24)               | 0.29  |
|                                | 74BD(O8H21)               | 77LV(Pb <sup>2+</sup> )    | 0.66  |                               | 48LP(Pb <sup>2+</sup> ) | 99BD*(O9H25)               | 0.29  |
|                                | 74BD(O8H21)               | 78LV(Pb <sup>2+</sup> )    | 1.07  |                               | 49LP(O2)                | 94BD*(O7H20)               | 4.8   |
|                                | 75BD(O8H22)               | 76LV(Pb <sup>2+</sup> )    | 0.53  |                               | 50LP(O2)                | 94BD*(O7H20)               | 6.47  |
|                                | 75BD(O8H22)               | 77LV(Pb <sup>2+</sup> )    | 0.59  |                               | 49LP(O2)                | 96BD*(O8H22)               | 4.51  |
|                                | 75BD(O8H22)               | 78LV(Pb <sup>2+</sup> )    | 1.16  |                               | 50LP(O2)                | 96BD*(O8H22)               | 6.72  |
|                                | 61LP(O8)                  | 81BD*(O3H11)               | 0.13  |                               | 51LP(O3)                | 97BD*(O8H23)               | 5.47  |
|                                | 61LP(O8)                  | 82BD*(O3H12)               | 0.15  |                               | 52LP(O3)                | 97BD*(O8H23)               | 5.86  |
|                                | 61LP(O8)                  | 83BD*(O4H13)               | 0.13  |                               | 51LP(O3)                | 98BD*(O9H24)               | 3.82  |
|                                | 61LP(O8)                  | 84BD*(O4H14)               | 0.16  |                               | 52LP(O3)                | 98BD*(O9H24)               | 7.34  |
|                                | 61LP(O8)                  | 89BD*(O7H19)               | 0.19  |                               | 53LP(O4)                | 93BD*(O6H19)               | 4.18  |
|                                | 61LP(O8)                  | 90BD*(O7H20)               | 0.2   |                               | 54LP(O4)                | 93BD*(O6H19)               | 7.02  |
|                                | 47LP(Pb <sup>2+</sup> )   | 81BD*(O2H13)               | 0.18  |                               | 53LP(O4)                | 95BD*(O7H21)               | 5.12  |
|                                | 51LP(O4)                  | 81BD*(O2H13)               | 15.72 |                               | 54LP(O4)                | 95BD*(O7H21)               | 6.18  |
|                                | 52LP(O4)                  | 81BD*(O2H13)               | 8.7   |                               | 55LP(O5)                | 92BD*(O6H18)               | 4.8   |
|                                | 61BD(Pb <sup>2+</sup> O4) | 81BD*(O2H13)               | 6.5   |                               | 56LP(O5)                | 92BD*(O6H18)               | 6.47  |
|                                | 67BD(O4H14)               | 81BD*(O2H13)               | 0.2   |                               | 55LP(O5)                | 99BD*(O9H25)               | 4.47  |
|                                | 47LP(Pb <sup>2+</sup> )   | 91BD*(O8H21)               | 0.85  |                               | 56LP(O5)                | 99BD*(O9H25)               | 6.76  |
|                                | 47LP(Pb <sup>2+</sup> )   | 92BD*(O8H22)               | 0.2   |                               | 57LP(O6)                | 82LV(Pb <sup>2+</sup> )    | 3.67  |
|                                | 61BD(Pb <sup>2+</sup> O4) | 91BD*(O8H21)               | 0.13  |                               | 58LP(O6)                | 81LV(Pb <sup>2+</sup> )    | 8.87  |
|                                | 64BD(O2H13)               | 78BD*(Pb <sup>2+</sup> O4) | 0.59  |                               | 58LP(O6)                | 82LV(Pb <sup>2+</sup> )    | 25.47 |
|                                | 64BD(O2H13)               | 84BD*(O4H14)               | 0.15  |                               | 73BD(O6H18)             | 81LV(Pb <sup>2+</sup> )    | 0.42  |
|                                | 62BD(O2H9)                | 85BD*(O5H15)               | 0.45  |                               | 73BD(O6H18)             | 82LV(Pb <sup>2+</sup> )    | 0.96  |
|                                | 62BD(O2H9)                | 86BD*(O5H16)               | 0.28  |                               | 74BD(O6H19)             | 81LV(Pb <sup>2+</sup> )    | 0.42  |
|                                | 49LP(O3)                  | 90BD*(O7H20)               | 0.19  |                               | 74BD(O6H19)             | 82LV(Pb <sup>2+</sup> )    | 0.96  |
|                                | 50LP(O3)                  | 90BD*(O7H20)               | 27.08 |                               | 74BD(O6H19)             | 88BD*(O4H14)               | 0.11  |
|                                | 53LP(O5)                  | 79BD*(O2H9)                | 0.54  |                               | 73BD(O6H18)             | 91BD*(O5H17)               | 0.11  |
|                                | 54LP(O5)                  | 79BD*(O2H9)                | 50.16 |                               | 59LP(O7)                | 83LV(Pb <sup>2+</sup> )    | 3.14  |
|                                | 55LP(O6)                  | 89BD*(O7H19)               | 0.19  |                               | 60LP(O7)                | 81LV(Pb <sup>2+</sup> )    | 8.79  |
|                                | 56LP(O6)                  | 89BD*(O7H19)               | 27.82 |                               | 60LP(O7)                | 83LV(Pb <sup>2+</sup> )    | 25.07 |
|                                | 57LP(O7)                  | 80BD*(O2H10)               | 35.27 |                               | 75BD(O7H20)             | 81LV(Pb <sup>2+</sup> )    | 0.45  |
|                                | 58LP(O7)                  | 80BD*(O2H10)               | 0.77  |                               | 75BD(O7H20)             | 83LV(Pb <sup>2+</sup> )    | 0.99  |
|                                | 72BD(O7H19)               | 80BD*(O2H10)               | 0.32  |                               | 76BD(O7H21)             | 81LV(Pb <sup>2+</sup> )    | 0.45  |
|                                | 73BD(O7H20)               | 80BD*(O2H10)               | 0.34  |                               | 76BD(O7H21)             | 83LV(Pb <sup>2+</sup> )    | 0.98  |
|                                | 73BD(O7H20)               | 82BD*(O3H11)               | 0.31  |                               | 75BD(O7H20)             | 85BD*(O2H11)               | 0.11  |
|                                | 73BD(O7H20)               | 83BD*(O3H12)               | 0.25  |                               | 76BD(O7H21)             | 88BD*(O4H14)               | 0.11  |
|                                | 72BD(O7H19)               | 87BD*(O6H17)               | 0.29  |                               | 61LP(O8)                | 82LV(Pb <sup>2+</sup> )    | 3.31  |
|                                | 72BD(O7H19)               | 88BD*(O6H18)               | 0.27  |                               | 62LP(O8)                | 81LV(Pb <sup>2+</sup> )    | 8.6   |
|                                | 57LP(O7)                  | 91BD*(O8H21)               | 0.54  |                               | 62LP(O8)                | 82LV(Pb <sup>2+</sup> )    | 25.31 |
|                                | 58LP(O7)                  | 91BD*(O8H21)               | 43.09 |                               | 77BD(O8H22)             | 81LV(Pb <sup>2+</sup> )    | 0.43  |
|                                | 72BD(O7H19)               | 91BD*(O8H21)               | 0.51  |                               | 77BD(O8H22)             | 82LV(Pb <sup>2+</sup> )    | 1.01  |
|                                | 73BD(O7H20)               | 91BD*(O8H21)               | 0.27  |                               | 78BD(O8H23)             | 81LV(Pb <sup>2+</sup> )    | 0.42  |
|                                | 59LP(O8)                  | 77LV(Pb <sup>2+</sup> )    | 3.92  |                               | 78BD(O8H23)             | 82LV(Pb <sup>2+</sup> )    | 1.02  |
|                                | 60LP(O8)                  | 76LV(Pb <sup>2+</sup> )    | 27.08 |                               | 77BD(O8H22)             | 85BD*(O2H11)               | 0.11  |

|                                |                           |                            |        |                         |                            |       |
|--------------------------------|---------------------------|----------------------------|--------|-------------------------|----------------------------|-------|
| W <sub>8</sub> S <sub>14</sub> | 78BD(O8H23)               | 86BD*(O3H12)               | 0.11   | 68BD(O3H13)             | 82LV(Pb <sup>2+</sup> )    | 2.11  |
|                                | 63LP(O9)                  | 83LV(Pb <sup>2+</sup> )    | 3.57   | 68BD(O3H13)             | 83BD*(Pb <sup>2+</sup> O2) | 0.16  |
|                                | 64LP(O9)                  | 81LV(Pb <sup>2+</sup> )    | 9.23   | 67BD(O3H12)             | 98BD*(O9H24)               | 0.17  |
|                                | 64LP(O9)                  | 83LV(Pb <sup>2+</sup> )    | 25.28  | 67BD(O3H12)             | 99BD*(O9H25)               | 0.2   |
|                                | 79BD(O9H24)               | 81LV(Pb <sup>2+</sup> )    | 0.45   | 52LP(O4)                | 92BD*(O6H18)               | 0.52  |
|                                | 79BD(O9H24)               | 83LV(Pb <sup>2+</sup> )    | 0.96   | 53LP(O4)                | 92BD*(O6H18)               | 36.49 |
|                                | 80BD(O9H25)               | 81LV(Pb <sup>2+</sup> )    | 0.44   | 54LP(O5)                | 94BD*(O7H20)               | 9.01  |
|                                | 80BD(O9H25)               | 83LV(Pb <sup>2+</sup> )    | 0.96   | 54LP(O5)                | 95BD*(O7H21)               | 0.11  |
|                                | 79BD(O9H24)               | 86BD*(O3H12)               | 0.11   | 54LP(O5)                | 97BD*(O8H23)               | 0.68  |
|                                | 80BD(O9H25)               | 91BD*(O5H17)               | 0.11   | 55LP(O5)                | 97BD*(O8H23)               | 12.69 |
|                                | 66BD(O2H11)               | 92BD*(O6H18)               | 0.27   | 56LP(O6)                | 81LV(Pb <sup>2+</sup> )    | 2.19  |
|                                | 68BD(O3H13)               | 94BD*(O7H20)               | 0.24   | 56LP(O6)                | 82LV(Pb <sup>2+</sup> )    | 0.59  |
|                                | 68BD(O3H13)               | 95BD*(O7H21)               | 0.26   | 56LP(O6)                | 83BD*(Pb <sup>2+</sup> O2) | 2.43  |
|                                | 48LP(Pb <sup>2+</sup> )   | 98BD*(O9H24)               | 0.27   | 57LP(O6)                | 81LV(Pb <sup>2+</sup> )    | 35.83 |
|                                | 48LP(Pb <sup>2+</sup> )   | 99BD*(O9H25)               | 0.66   | 57LP(O6)                | 82LV(Pb <sup>2+</sup> )    | 0.1   |
|                                | 63BD(Pb <sup>2+</sup> O2) | 98BD*(O9H24)               | 0.1    | 57LP(O6)                | 83BD*(Pb <sup>2+</sup> O2) | 1.3   |
|                                | 51LP(O4)                  | 98BD*(O9H24)               | 0.45   | 73BD(O6H18)             | 81LV(Pb <sup>2+</sup> )    | 0.99  |
|                                | 52LP(O4)                  | 98BD*(O9H24)               | 36.22  | 73BD(O6H18)             | 82LV(Pb <sup>2+</sup> )    | 0.13  |
|                                | 53LP(O5)                  | 92BD*(O6H18)               | 0.28   | 74BD(O6H19)             | 81LV(Pb <sup>2+</sup> )    | 0.33  |
|                                | 54LP(O5)                  | 92BD*(O6H18)               | 33.67  | 73BD(O6H18)             | 88BD*(O4H14)               | 0.12  |
|                                | 55LP(O6)                  | 85BD*(O2H11)               | 2.22   | 73BD(O6H18)             | 89BD*(O4H15)               | 0.3   |
|                                | 56LP(O6)                  | 85BD*(O2H11)               | 139.22 | 58LP(O7)                | 85BD*(O2H11)               | 0.71  |
|                                | 73BD(O6H18)               | 85BD*(O2H11)               | 3.4    | 59LP(O7)                | 85BD*(O2H11)               | 47.93 |
|                                | 74BD(O6H19)               | 85BD*(O2H11)               | 3.14   | 75BD(O7H20)             | 85BD*(O2H11)               | 0.28  |
|                                | 73BD(O6H18)               | 90BD*(O5H16)               | 0.24   | 60LP(O8)                | 81LV(Pb <sup>2+</sup> )    | 1.08  |
|                                | 73BD(O6H18)               | 91BD*(O5H17)               | 0.37   | 60LP(O8)                | 82LV(Pb <sup>2+</sup> )    | 2.33  |
|                                | 57LP(O7)                  | 87BD*(O3H13)               | 0.26   | 60LP(O8)                | 83BD*(Pb <sup>2+</sup> O2) | 0.27  |
|                                | 58LP(O7)                  | 87BD*(O3H13)               | 29.36  | 61LP(O8)                | 81LV(Pb <sup>2+</sup> )    | 19.81 |
|                                | 59LP(O8)                  | 86BD*(O3H12)               | 0.6    | 61LP(O8)                | 82LV(Pb <sup>2+</sup> )    | 3.13  |
|                                | 60LP(O8)                  | 86BD*(O3H12)               | 12.74  | 61LP(O8)                | 83BD*(Pb <sup>2+</sup> O2) | 0.21  |
|                                | 59LP(O8)                  | 93BD*(O6H19)               | 8.62   | 77BD(O8H22)             | 81LV(Pb <sup>2+</sup> )    | 0.14  |
|                                | 61LP(O9)                  | 82BD*(Pb <sup>2+</sup> O2) | 0.52   | 77BD(O8H22)             | 82LV(Pb <sup>2+</sup> )    | 0.25  |
|                                | 61LP(O9)                  | 83BD*(Pb <sup>2+</sup> O3) | 0.69   | 77BD(O8H22)             | 83BD*(Pb <sup>2+</sup> O2) | 0.18  |
|                                | 62LP(O9)                  | 81LV(Pb <sup>2+</sup> )    | 20.46  | 78BD(O8H23)             | 81LV(Pb <sup>2+</sup> )    | 0.37  |
|                                | 62LP(O9)                  | 82BD*(Pb <sup>2+</sup> O2) | 0.35   | 78BD(O8H23)             | 82LV(Pb <sup>2+</sup> )    | 0.15  |
|                                | 79BD(O9H24)               | 81LV(Pb <sup>2+</sup> )    | 0.43   | 78BD(O8H23)             | 83BD*(Pb <sup>2+</sup> O2) | 0.2   |
|                                | 80BD(O9H25)               | 81LV(Pb <sup>2+</sup> )    | 0.3    | 60LP(O8)                | 86BD*(O3H12)               | 0.16  |
|                                | 79BD(O9H24)               | 88BD*(O4H14)               | 0.28   | 60LP(O8)                | 87BD*(O3H13)               | 0.41  |
|                                | 79BD(O9H24)               | 89BD*(O4H15)               | 0.24   | 62LP(O9)                | 86BD*(O3H12)               | 0.32  |
| W <sub>8</sub> S <sub>16</sub> | 48LP(Pb <sup>2+</sup> )   | 86BD*(O3H12)               | 0.63   | 63LP(O9)                | 86BD*(O3H12)               | 17.82 |
|                                | 48LP(Pb <sup>2+</sup> )   | 87BD*(O3H13)               | 0.12   | 62LP(O9)                | 88BD*(O4H14)               | 6.58  |
|                                | 48LP(Pb <sup>2+</sup> )   | 92BD*(O6H18)               | 0.19   | 62LP(O9)                | 89BD*(O4H15)               | 0.1   |
|                                | 48LP(Pb <sup>2+</sup> )   | 93BD*(O6H19)               | 0.22   | 48LP(Pb <sup>2+</sup> ) | 85BD*(O2H11)               | 0.56  |
|                                | 64BD(Pb <sup>2+</sup> O2) | 92BD*(O6H18)               | 0.11   | 48LP(Pb <sup>2+</sup> ) | 87BD*(O3H13)               | 0.56  |
|                                | 66BD(O2H11)               | 94BD*(O7H20)               | 0.1    | 48LP(Pb <sup>2+</sup> ) | 88BD*(O4H14)               | 0.56  |
|                                | 66BD(O2H11)               | 95BD*(O7H21)               | 0.39   | 48LP(Pb <sup>2+</sup> ) | 91BD*(O5H19)               | 0.56  |
|                                | 48LP(Pb <sup>2+</sup> )   | 96BD*(O8H22)               | 0.11   | 48LP(Pb <sup>2+</sup> ) | 93BD*(O6H18)               | 0.56  |
|                                | 48LP(Pb <sup>2+</sup> )   | 97BD*(O8H23)               | 0.32   | 48LP(Pb <sup>2+</sup> ) | 95BD*(O7H21)               | 0.56  |
|                                | 64BD(Pb <sup>2+</sup> O2) | 96BD*(O8H22)               | 0.12   | 48LP(Pb <sup>2+</sup> ) | 96BD*(O8H22)               | 0.56  |
|                                | 50LP(O3)                  | 82LV(Pb <sup>2+</sup> )    | 0.27   | 48LP(Pb <sup>2+</sup> ) | 99BD*(O9H25)               | 0.57  |
|                                | 50LP(O3)                  | 83BD*(Pb <sup>2+</sup> O2) | 0.59   | 49LP(O2)                | 82LV(Pb <sup>2+</sup> )    | 2.62  |
|                                | 51LP(O3)                  | 82LV(Pb <sup>2+</sup> )    | 36.55  | 49LP(O2)                | 83LV(Pb <sup>2+</sup> )    | 7.87  |
|                                | 67BD(O3H12)               | 81LV(Pb <sup>2+</sup> )    | 0.22   | 50LP(O2)                | 81LV(Pb <sup>2+</sup> )    | 53.66 |
|                                | 67BD(O3H12)               | 82LV(Pb <sup>2+</sup> )    | 1.55   | 50LP(O2)                | 82LV(Pb <sup>2+</sup> )    | 15.89 |
| W <sub>8</sub> S <sub>22</sub> |                           |                            |        |                         |                            |       |
|                                |                           |                            |        |                         |                            |       |
|                                |                           |                            |        |                         |                            |       |
|                                |                           |                            |        |                         |                            |       |
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|                                |                           |                            |        |                         |                            |       |

|             |                         |       |             |                         |       |
|-------------|-------------------------|-------|-------------|-------------------------|-------|
| 50LP(O2)    | 83LV(Pb <sup>2+</sup> ) | 44.32 | 57LP(O6)    | 81LV(Pb <sup>2+</sup> ) | 2.52  |
| 65BD(O2H10) | 81LV(Pb <sup>2+</sup> ) | 2.03  | 57LP(O6)    | 83LV(Pb <sup>2+</sup> ) | 7.9   |
| 65BD(O2H10) | 82LV(Pb <sup>2+</sup> ) | 1.14  | 58LP(O6)    | 81LV(Pb <sup>2+</sup> ) | 4.43  |
| 65BD(O2H10) | 83LV(Pb <sup>2+</sup> ) | 1.44  | 58LP(O6)    | 82LV(Pb <sup>2+</sup> ) | 65.33 |
| 66BD(O2H11) | 83LV(Pb <sup>2+</sup> ) | 1.24  | 58LP(O6)    | 83LV(Pb <sup>2+</sup> ) | 44.33 |
| 50LP(O2)    | 87BD*(O3H13)            | 0.31  | 73BD(O6H17) | 81LV(Pb <sup>2+</sup> ) | 0.48  |
| 50LP(O2)    | 88BD*(O4H14)            | 0.11  | 73BD(O6H17) | 82LV(Pb <sup>2+</sup> ) | 2.67  |
| 50LP(O2)    | 95BD*(O7H21)            | 0.24  | 73BD(O6H17) | 83LV(Pb <sup>2+</sup> ) | 1.43  |
| 49LP(O2)    | 97BD*(O8H23)            | 0.68  | 74BD(O6H18) | 83LV(Pb <sup>2+</sup> ) | 1.25  |
| 50LP(O2)    | 99BD*(O9H25)            | 0.15  | 58LP(O6)    | 87BD*(O3H13)            | 0.23  |
| 51LP(O3)    | 81LV(Pb <sup>2+</sup> ) | 2.72  | 58LP(O6)    | 91BD*(O5H19)            | 0.11  |
| 51LP(O3)    | 82LV(Pb <sup>2+</sup> ) | 0.1   | 58LP(O6)    | 95BD*(O7H21)            | 0.31  |
| 51LP(O3)    | 83LV(Pb <sup>2+</sup> ) | 7.75  | 58LP(O6)    | 96BD*(O8H22)            | 0.14  |
| 52LP(O3)    | 81LV(Pb <sup>2+</sup> ) | 5.03  | 57LP(O6)    | 98BD*(O9H24)            | 0.66  |
| 52LP(O3)    | 82LV(Pb <sup>2+</sup> ) | 67.85 | 59LP(O7)    | 82LV(Pb <sup>2+</sup> ) | 2.78  |
| 52LP(O3)    | 83LV(Pb <sup>2+</sup> ) | 42.36 | 59LP(O7)    | 83LV(Pb <sup>2+</sup> ) | 7.84  |
| 67BD(O3H12) | 81LV(Pb <sup>2+</sup> ) | 0.51  | 60LP(O7)    | 81LV(Pb <sup>2+</sup> ) | 56.23 |
| 67BD(O3H12) | 82LV(Pb <sup>2+</sup> ) | 2.74  | 60LP(O7)    | 82LV(Pb <sup>2+</sup> ) | 16.79 |
| 67BD(O3H12) | 83LV(Pb <sup>2+</sup> ) | 1.33  | 60LP(O7)    | 83LV(Pb <sup>2+</sup> ) | 42.53 |
| 68BD(O3H13) | 83LV(Pb <sup>2+</sup> ) | 1.26  | 75BD(O7H20) | 81LV(Pb <sup>2+</sup> ) | 2.11  |
| 52LP(O3)    | 85BD*(O2H11)            | 0.3   | 75BD(O7H20) | 82LV(Pb <sup>2+</sup> ) | 1.16  |
| 51LP(O3)    | 89BD*(O4H15)            | 0.66  | 75BD(O7H20) | 83LV(Pb <sup>2+</sup> ) | 1.39  |
| 52LP(O3)    | 91BD*(O5H19)            | 0.14  | 76BD(O7H21) | 83LV(Pb <sup>2+</sup> ) | 1.25  |
| 52LP(O3)    | 93BD*(O6H18)            | 0.23  | 60LP(O7)    | 85BD*(O2H11)            | 0.23  |
| 52LP(O3)    | 96BD*(O8H22)            | 0.11  | 60LP(O7)    | 88BD*(O4H14)            | 0.14  |
| 53LP(O4)    | 81LV(Pb <sup>2+</sup> ) | 0.1   | 59LP(O7)    | 90BD*(O5H16)            | 0.67  |
| 53LP(O4)    | 82LV(Pb <sup>2+</sup> ) | 2.5   | 60LP(O7)    | 93BD*(O6H18)            | 0.31  |
| 53LP(O4)    | 83LV(Pb <sup>2+</sup> ) | 7.88  | 60LP(O7)    | 99BD*(O9H25)            | 0.11  |
| 54LP(O4)    | 81LV(Pb <sup>2+</sup> ) | 67.96 | 61LP(O8)    | 81LV(Pb <sup>2+</sup> ) | 2.8   |
| 54LP(O4)    | 82LV(Pb <sup>2+</sup> ) | 4.38  | 61LP(O8)    | 83LV(Pb <sup>2+</sup> ) | 7.79  |
| 54LP(O4)    | 83LV(Pb <sup>2+</sup> ) | 42.83 | 62LP(O8)    | 81LV(Pb <sup>2+</sup> ) | 16.99 |
| 69BD(O4H14) | 83LV(Pb <sup>2+</sup> ) | 1.26  | 62LP(O8)    | 82LV(Pb <sup>2+</sup> ) | 54.05 |
| 70BD(O4H15) | 81LV(Pb <sup>2+</sup> ) | 2.77  | 62LP(O8)    | 83LV(Pb <sup>2+</sup> ) | 43.56 |
| 70BD(O4H15) | 82LV(Pb <sup>2+</sup> ) | 0.47  | 77BD(O8H22) | 83LV(Pb <sup>2+</sup> ) | 1.25  |
| 70BD(O4H15) | 83LV(Pb <sup>2+</sup> ) | 1.39  | 78BD(O8H23) | 81LV(Pb <sup>2+</sup> ) | 1.18  |
| 54LP(O4)    | 85BD*(O2H11)            | 0.11  | 78BD(O8H23) | 82LV(Pb <sup>2+</sup> ) | 2.05  |
| 54LP(O4)    | 91BD*(O5H19)            | 0.31  | 78BD(O8H23) | 83LV(Pb <sup>2+</sup> ) | 1.41  |
| 53LP(O4)    | 92BD*(O6H17)            | 0.65  | 62LP(O8)    | 87BD*(O3H13)            | 0.11  |
| 54LP(O4)    | 95BD*(O7H21)            | 0.14  | 62LP(O8)    | 91BD*(O5H19)            | 0.24  |
| 54LP(O4)    | 99BD*(O9H25)            | 0.23  | 62LP(O8)    | 93BD*(O6H18)            | 0.14  |
| 55LP(O5)    | 81LV(Pb <sup>2+</sup> ) | 2.58  | 61LP(O8)    | 94BD*(O7H20)            | 0.68  |
| 55LP(O5)    | 83LV(Pb <sup>2+</sup> ) | 7.92  | 62LP(O8)    | 99BD*(O9H25)            | 0.31  |
| 56LP(O5)    | 81LV(Pb <sup>2+</sup> ) | 15.73 | 63LP(O9)    | 82LV(Pb <sup>2+</sup> ) | 2.72  |
| 56LP(O5)    | 82LV(Pb <sup>2+</sup> ) | 55.82 | 63LP(O9)    | 83LV(Pb <sup>2+</sup> ) | 7.78  |
| 56LP(O5)    | 83LV(Pb <sup>2+</sup> ) | 43.31 | 64LP(O9)    | 81LV(Pb <sup>2+</sup> ) | 65.38 |
| 71BD(O5H16) | 81LV(Pb <sup>2+</sup> ) | 1.12  | 64LP(O9)    | 82LV(Pb <sup>2+</sup> ) | 5.11  |
| 71BD(O5H16) | 82LV(Pb <sup>2+</sup> ) | 2.09  | 64LP(O9)    | 83LV(Pb <sup>2+</sup> ) | 43.9  |
| 71BD(O5H16) | 83LV(Pb <sup>2+</sup> ) | 1.4   | 79BD(O9H24) | 81LV(Pb <sup>2+</sup> ) | 2.71  |
| 72BD(O5H19) | 83LV(Pb <sup>2+</sup> ) | 1.25  | 79BD(O9H24) | 82LV(Pb <sup>2+</sup> ) | 0.52  |
| 55LP(O5)    | 84BD*(O2H10)            | 0.67  | 79BD(O9H24) | 83LV(Pb <sup>2+</sup> ) | 1.43  |
| 56LP(O5)    | 87BD*(O3H13)            | 0.14  | 80BD(O9H25) | 83LV(Pb <sup>2+</sup> ) | 1.25  |
| 56LP(O5)    | 88BD*(O4H14)            | 0.31  | 64LP(O9)    | 85BD*(O2H11)            | 0.14  |
| 56LP(O5)    | 93BD*(O6H18)            | 0.11  | 63LP(O9)    | 86BD*(O3H12)            | 0.66  |
| 56LP(O5)    | 96BD*(O8H22)            | 0.23  | 64LP(O9)    | 88BD*(O4H14)            | 0.23  |

|                                |                            |                             |       |
|--------------------------------|----------------------------|-----------------------------|-------|
| W <sub>8</sub> S <sub>23</sub> | 64LP(O9)                   | 95BD*(O7H21)                | 0.11  |
|                                | 64LP(O9)                   | 96BD*(O8H22)                | 0.31  |
|                                | 48LP(Pb <sup>2+</sup> )    | 90BD*(O6-H11)               | 0.38  |
|                                | 49LP(O2)                   | 90BD*(O6-H11)               | 0.65  |
|                                | 50LP(O2)                   | 90BD*(O6-H11)               | 83.25 |
|                                | 63BD(Pb <sup>2+</sup> -O2) | 90BD*(O6-H11)               | 2.69  |
|                                | 65BD(O2-H10)               | 90BD*(O6-H11)               | 2.31  |
|                                | 48LP(Pb <sup>2+</sup> )    | 97BD*(O9-H12)               | 0.38  |
|                                | 51LP(O3)                   | 97BD*(O9-H12)               | 0.62  |
|                                | 52LP(O3)                   | 97BD*(O9-H12)               | 83.82 |
|                                | 64BD(Pb <sup>2+</sup> -O3) | 97BD*(O9-H12)               | 2.72  |
|                                | 66BD(O3-H13)               | 97BD*(O9-H12)               | 2.32  |
|                                | 53LP(O4)                   | 98BD*(O9-H24)               | 0.24  |
|                                | 54LP(O4)                   | 98BD*(O9-H24)               | 49.67 |
|                                | 67BD(O4-H14)               | 98BD*(O9-H24)               | 0.9   |
|                                | 68BD(O4-H15)               | 98BD*(O9-H24)               | 1.06  |
|                                | 55LP(O5)                   | 91BD*(O6-H18)               | 0.25  |
|                                | 56LP(O5)                   | 91BD*(O6-H18)               | 49.8  |
|                                | 69BD(O5-H16)               | 91BD*(O6-H18)               | 1.06  |
|                                | 70BD(O5-H17)               | 91BD*(O6-H18)               | 0.91  |
|                                | 71BD(O6-H11)               | 82BD*(Pb <sup>2+</sup> -O2) | 0.21  |
|                                | 72BD(O6-H18)               | 88BD*(O5-H16)               | 0.18  |
|                                | 72BD(O6-H18)               | 89BD*(O5-H17)               | 0.18  |
|                                | 58LP(O7)                   | 87BD*(O4-H15)               | 9.35  |
|                                | 58LP(O7)                   | 92BD*(O6-H19)               | 0.41  |
|                                | 59LP(O7)                   | 92BD*(O6-H19)               | 18.82 |
|                                | 60LP(O8)                   | 88BD*(O5-H16)               | 9.42  |
|                                | 60LP(O8)                   | 99BD*(O9-H25)               | 0.4   |
|                                | 61LP(O8)                   | 99BD*(O9-H25)               | 18.71 |
|                                | 78BD(O9-H12)               | 83BD*(Pb <sup>2+</sup> -O3) | 0.21  |
|                                | 79BD(O9-H24)               | 86BD*(O4-H14)               | 0.18  |
|                                | 79BD(O9-H24)               | 87BD*(O4-H15)               | 0.18  |

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Table S8 EDA-NOCV results of the Pb-n(H<sub>2</sub>O) interaction, values in kcal/mol.

|                                | EDA              |                   |                   |                    |                  |                        | NOCV              |                   |                   |                     |
|--------------------------------|------------------|-------------------|-------------------|--------------------|------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
|                                | $\Delta E_{Orb}$ | $\Delta V_{Elst}$ | $\Delta E_{Disp}$ | $\Delta E_{Pauli}$ | $\Delta E_{int}$ | $\Delta E_{int}/nH_2O$ | $\Delta E_{Orb1}$ | $\Delta E_{Orb2}$ | $\Delta E_{Orb3}$ | $\Delta E_{Others}$ |
| W <sub>1</sub> S <sub>1</sub>  | -47.95           | -58.88            | -0.89             | 45.95              | -61.77           | -61.77                 | -30.94            | -9.80             | -5.60             | -1.60               |
| W <sub>2</sub> S <sub>1</sub>  | -84.11           | -104.22           | -1.67             | 77.88              | -112.12          | -56.06                 | -30.25            | -26.09            | -10.31            | -17.46              |
| W <sub>2</sub> S <sub>2</sub>  | -95.27           | -144.11           | -1.05             | 95.52              | -144.91          | -72.46                 | -59.00            | -18.20            | -12.54            | -5.53               |
| W <sub>3</sub> S <sub>1</sub>  | -111.20          | -138.05           | -2.46             | 98.08              | -153.63          | -51.21                 | -30.49            | -24.35            | -24.34            | -32.02              |
| W <sub>3</sub> S <sub>2</sub>  | -110.53          | -158.56           | -1.91             | 105.90             | -165.10          | -55.03                 | -45.81            | -25.23            | -15.15            | -25.35              |
| W <sub>3</sub> S <sub>3</sub>  | -105.62          | -148.54           | -1.91             | 100.11             | -155.96          | -51.99                 | -41.15            | -26.59            | -14.06            | -23.82              |
| W <sub>4</sub> S <sub>1</sub>  | -126.68          | -173.39           | -2.70             | 113.70             | -189.07          | -47.27                 | -38.93            | -25.96            | -23.48            | -38.31              |
| W <sub>4</sub> S <sub>2</sub>  | -122.17          | -167.20           | -2.75             | 108.25             | -183.87          | -45.97                 | -33.69            | -25.54            | -25.00            | -37.94              |
| W <sub>4</sub> S <sub>3</sub>  | -122.07          | -159.16           | -3.19             | 99.48              | -184.94          | -46.24                 | -28.36            | -26.77            | -22.98            | -43.96              |
| W <sub>4</sub> S <sub>4</sub>  | -121.79          | -185.69           | -2.20             | 116.56             | -193.12          | -48.28                 | -43.73            | -32.31            | -15.31            | -30.43              |
| W <sub>4</sub> S <sub>5</sub>  | -140.91          | -214.07           | -1.79             | 132.21             | -224.56          | -56.14                 | -68.86            | -21.42            | -22.68            | -27.94              |
| W <sub>5</sub> S <sub>1</sub>  | -134.95          | -197.57           | -2.99             | 120.73             | -214.78          | -42.96                 | -38.16            | -29.10            | -24.34            | -43.35              |
| W <sub>5</sub> S <sub>2</sub>  | -137.89          | -200.56           | -2.95             | 124.09             | -217.31          | -43.46                 | -40.58            | -30.11            | -23.72            | -43.49              |
| W <sub>5</sub> S <sub>3</sub>  | -134.89          | -196.51           | -3.01             | 121.05             | -213.36          | -42.67                 | -39.86            | -26.17            | -25.38            | -43.48              |
| W <sub>5</sub> S <sub>4</sub>  | -133.22          | -184.74           | -3.46             | 109.44             | -211.98          | -42.40                 | -30.94            | -26.49            | -26.10            | -49.70              |
| W <sub>5</sub> S <sub>5</sub>  | -135.48          | -188.81           | -3.42             | 112.90             | -214.81          | -42.96                 | -35.34            | -25.88            | -25.34            | -48.92              |
| W <sub>5</sub> S <sub>6</sub>  | -152.09          | -225.77           | -2.61             | 137.92             | -242.55          | -48.51                 | -59.71            | -25.55            | -23.15            | -43.67              |
| W <sub>5</sub> S <sub>7</sub>  | -128.98          | -177.40           | -3.90             | 97.58              | -212.70          | -42.54                 | -25.40            | -25.37            | -24.54            | -53.68              |
| W <sub>5</sub> S <sub>8</sub>  | -128.72          | -187.94           | -2.82             | 114.05             | -205.43          | -41.09                 | -36.11            | -26.41            | -25.28            | -40.92              |
| W <sub>5</sub> S <sub>9</sub>  | -132.19          | -184.85           | -3.42             | 109.03             | -211.43          | -42.29                 | -33.56            | -27.80            | -22.27            | -48.57              |
| W <sub>5</sub> S <sub>10</sub> | -131.11          | -185.72           | -3.02             | 115.88             | -203.97          | -40.79                 | -36.57            | -27.08            | -25.37            | -42.08              |
| W <sub>5</sub> S <sub>11</sub> | -127.11          | -175.38           | -3.90             | 96.25              | -210.14          | -42.03                 | -24.93            | -25.99            | -23.90            | -52.29              |
| W <sub>5</sub> S <sub>12</sub> | -126.03          | -198.20           | -2.34             | 121.01             | -205.56          | -41.11                 | -45.96            | -31.15            | -15.91            | -33.02              |
| W <sub>6</sub> S <sub>1</sub>  | -139.53          | -207.13           | -3.72             | 114.47             | -235.91          | -39.32                 | -32.36            | -27.85            | -25.97            | -53.35              |
| W <sub>6</sub> S <sub>2</sub>  | -145.53          | -221.62           | -3.23             | 130.69             | -239.69          | -39.95                 | -41.38            | -30.44            | -25.58            | -48.13              |
| W <sub>6</sub> S <sub>3</sub>  | -141.14          | -206.79           | -3.74             | 116.43             | -235.24          | -39.21                 | -34.02            | -28.10            | -25.28            | -53.74              |
| W <sub>6</sub> S <sub>4</sub>  | -147.29          | -222.96           | -3.15             | 132.25             | -241.15          | -40.19                 | -41.31            | -29.54            | -28.38            | -48.06              |
| W <sub>6</sub> S <sub>5</sub>  | -140.22          | -206.78           | -3.68             | 114.56             | -236.12          | -39.35                 | -32.45            | -28.47            | -25.48            | -53.81              |
| W <sub>6</sub> S <sub>6</sub>  | -157.39          | -242.04           | -2.89             | 143.10             | -259.22          | -43.20                 | -54.45            | -31.10            | -23.75            | -48.09              |
| W <sub>6</sub> S <sub>7</sub>  | -141.85          | -207.18           | -3.70             | 116.83             | -235.90          | -39.32                 | -34.58            | -27.36            | -25.98            | -53.93              |
| W <sub>6</sub> S <sub>8</sub>  | -137.36          | -198.31           | -4.16             | 105.35             | -234.48          | -39.08                 | -29.86            | -25.78            | -25.37            | -56.35              |
| W <sub>6</sub> S <sub>9</sub>  | -141.06          | -214.20           | -3.04             | 126.24             | -232.06          | -38.68                 | -38.35            | -30.60            | -26.10            | -46.01              |
| W <sub>6</sub> S <sub>10</sub> | -139.07          | -202.86           | -3.54             | 114.83             | -230.64          | -38.44                 | -33.51            | -27.19            | -26.25            | -52.11              |
| W <sub>6</sub> S <sub>11</sub> | -153.30          | -228.08           | -3.39             | 130.52             | -254.25          | -42.38                 | -49.83            | -25.39            | -25.22            | -52.86              |
| W <sub>6</sub> S <sub>12</sub> | -138.78          | -201.57           | -3.71             | 114.07             | -229.99          | -38.33                 | -33.47            | -26.91            | -25.73            | -52.67              |
| W <sub>6</sub> S <sub>13</sub> | -141.26          | -214.01           | -3.25             | 126.79             | -231.73          | -38.62                 | -41.32            | -27.82            | -25.55            | -46.57              |
| W <sub>6</sub> S <sub>14</sub> | -144.49          | -210.69           | -3.69             | 122.24             | -236.63          | -39.44                 | -39.23            | -25.52            | -26.12            | -53.62              |
| W <sub>6</sub> S <sub>15</sub> | -140.57          | -204.21           | -3.62             | 116.28             | -232.12          | -38.69                 | -34.90            | -27.00            | -26.07            | -52.60              |
| W <sub>6</sub> S <sub>16</sub> | -138.55          | -200.00           | -4.11             | 106.62             | -236.04          | -39.34                 | -30.35            | -25.62            | -24.99            | -57.58              |
| W <sub>6</sub> S <sub>17</sub> | -129.48          | -194.62           | -4.59             | 93.05              | -235.64          | -39.27                 | -23.91            | -23.82            | -23.81            | -57.93              |
| W <sub>6</sub> S <sub>18</sub> | -138.78          | -208.62           | -3.08             | 123.89             | -226.59          | -37.77                 | -39.17            | -29.11            | -25.05            | -45.45              |
| W <sub>6</sub> S <sub>19</sub> | -136.78          | -202.62           | -3.10             | 120.96             | -221.54          | -36.92                 | -38.33            | -28.58            | -25.63            | -44.24              |
| W <sub>6</sub> S <sub>20</sub> | -148.99          | -240.78           | -2.09             | 142.30             | -249.56          | -41.59                 | -64.57            | -30.59            | -20.14            | -33.69              |

Table S9 EDA-NOCV results of the Pb-n(H<sub>2</sub>O) interaction, values in kcal/mol.

|                                | EDA              |                   |                   |                    |                  |                        | NOCV              |                   |                   |                     |
|--------------------------------|------------------|-------------------|-------------------|--------------------|------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
|                                | $\Delta E_{Orb}$ | $\Delta V_{Elst}$ | $\Delta E_{Disp}$ | $\Delta E_{Pauli}$ | $\Delta E_{int}$ | $\Delta E_{int}/nH_2O$ | $\Delta E_{Orb1}$ | $\Delta E_{Orb2}$ | $\Delta E_{Orb3}$ | $\Delta E_{Others}$ |
| W <sub>7</sub> S <sub>1</sub>  | -146.93          | -229.14           | -3.92             | 120.79             | -259.20          | -37.03                 | -34.59            | -28.72            | -26.66            | -56.96              |
| W <sub>7</sub> S <sub>2</sub>  | -147.08          | -228.57           | -3.95             | 121.30             | -258.30          | -36.90                 | -34.97            | -28.36            | -26.63            | -57.12              |
| W <sub>7</sub> S <sub>3</sub>  | -144.20          | -224.71           | -4.01             | 117.42             | -255.50          | -36.50                 | -32.69            | -28.27            | -26.68            | -56.56              |
| W <sub>7</sub> S <sub>4</sub>  | -143.92          | -223.28           | -3.79             | 118.17             | -252.82          | -36.12                 | -33.83            | -28.15            | -26.51            | -55.43              |
| W <sub>7</sub> S <sub>5</sub>  | -149.24          | -236.47           | -3.30             | 133.41             | -255.60          | -36.51                 | -41.85            | -30.23            | -26.95            | -50.20              |
| W <sub>7</sub> S <sub>6</sub>  | -144.49          | -222.11           | -3.82             | 118.72             | -251.70          | -35.96                 | -35.13            | -28.63            | -25.13            | -55.61              |
| W <sub>7</sub> S <sub>7</sub>  | -153.52          | -245.64           | -3.28             | 138.39             | -264.05          | -37.72                 | -45.61            | -32.10            | -25.08            | -50.73              |
| W <sub>7</sub> S <sub>8</sub>  | -141.37          | -218.20           | -4.41             | 107.02             | -256.96          | -36.71                 | -30.14            | -26.00            | -24.76            | -60.47              |
| W <sub>7</sub> S <sub>9</sub>  | -146.93          | -225.66           | -3.87             | 121.66             | -254.80          | -36.40                 | -36.30            | -27.01            | -27.61            | -56.01              |
| W <sub>7</sub> S <sub>10</sub> | -150.91          | -235.30           | -3.50             | 134.07             | -255.64          | -36.52                 | -43.76            | -29.57            | -26.20            | -51.38              |
| W <sub>7</sub> S <sub>11</sub> | -144.14          | -221.95           | -3.74             | 117.63             | -252.20          | -36.03                 | -33.31            | -29.21            | -25.84            | -55.78              |
| W <sub>7</sub> S <sub>12</sub> | -148.29          | -233.54           | -3.53             | 132.70             | -252.66          | -36.09                 | -41.99            | -30.73            | -25.05            | -50.52              |
| W <sub>7</sub> S <sub>13</sub> | -147.65          | -232.25           | -3.21             | 131.94             | -251.17          | -35.88                 | -40.41            | -29.01            | -29.36            | -48.87              |
| W <sub>7</sub> S <sub>14</sub> | -144.03          | -220.90           | -3.76             | 118.54             | -250.15          | -35.74                 | -35.39            | -27.42            | -26.13            | -55.09              |
| W <sub>7</sub> S <sub>15</sub> | -134.87          | -213.75           | -4.81             | 96.87              | -256.56          | -36.65                 | -26.04            | -24.69            | -22.94            | -61.20              |
| W <sub>7</sub> S <sub>16</sub> | -191.50          | -254.55           | -2.51             | 150.95             | -297.61          | -42.52                 | -96.19            | -25.27            | -22.12            | -47.92              |
| W <sub>7</sub> S <sub>17</sub> | -141.28          | -220.79           | -3.12             | 125.53             | -239.66          | -34.24                 | -39.89            | -29.42            | -25.45            | -46.52              |
| W <sub>7</sub> S <sub>18</sub> | -131.64          | -201.20           | -5.28             | 86.64              | -251.48          | -35.93                 | -22.69            | -23.24            | -23.03            | -62.67              |
| W <sub>7</sub> S <sub>19</sub> | -154.53          | -254.13           | -2.16             | 147.08             | -263.74          | -37.68                 | -65.31            | -32.79            | -20.51            | -35.92              |
|                                |                  |                   |                   |                    |                  |                        |                   |                   |                   |                     |
| W <sub>8</sub> S <sub>1</sub>  | -148.79          | -241.61           | -4.27             | 120.61             | -274.06          | -34.26                 | -33.09            | -28.29            | -28.05            | -59.36              |
| W <sub>8</sub> S <sub>2</sub>  | -151.66          | -243.38           | -4.02             | 125.11             | -273.95          | -34.24                 | -36.17            | -29.31            | -27.19            | -59.00              |
| W <sub>8</sub> S <sub>3</sub>  | -150.72          | -242.94           | -4.23             | 122.40             | -275.49          | -34.44                 | -33.63            | -30.09            | -26.82            | -60.19              |
| W <sub>8</sub> S <sub>4</sub>  | -148.75          | -236.46           | -4.62             | 113.60             | -276.23          | -34.53                 | -30.75            | -27.53            | -26.80            | -63.67              |
| W <sub>8</sub> S <sub>5</sub>  | -151.00          | -241.92           | -4.02             | 124.32             | -272.62          | -34.08                 | -36.66            | -29.19            | -26.44            | -58.71              |
| W <sub>8</sub> S <sub>6</sub>  | -158.63          | -254.31           | -3.75             | 140.52             | -276.17          | -34.52                 | -44.67            | -29.84            | -28.83            | -55.29              |
| W <sub>8</sub> S <sub>7</sub>  | -146.03          | -232.44           | -4.47             | 111.15             | -271.79          | -33.97                 | -30.79            | -26.81            | -26.13            | -62.30              |
| W <sub>8</sub> S <sub>8</sub>  | -150.31          | -240.14           | -4.22             | 122.77             | -271.90          | -33.99                 | -36.59            | -28.16            | -26.23            | -59.33              |
| W <sub>8</sub> S <sub>9</sub>  | -148.03          | -239.21           | -3.99             | 121.12             | -270.11          | -33.76                 | -35.23            | -27.47            | -26.63            | -58.70              |
| W <sub>8</sub> S <sub>10</sub> | -145.69          | -235.32           | -4.61             | 109.87             | -275.75          | -34.47                 | -30.21            | -26.92            | -25.48            | -63.08              |
| W <sub>8</sub> S <sub>11</sub> | -146.01          | -231.07           | -4.62             | 110.57             | -271.13          | -33.89                 | -31.22            | -27.00            | -25.08            | -62.71              |
| W <sub>8</sub> S <sub>12</sub> | -153.56          | -241.60           | -4.15             | 126.44             | -272.87          | -34.11                 | -37.71            | -29.04            | -27.55            | -59.26              |
| W <sub>8</sub> S <sub>13</sub> | -160.18          | -261.42           | -3.26             | 144.38             | -280.48          | -35.06                 | -47.13            | -32.08            | -28.32            | -52.65              |
| W <sub>8</sub> S <sub>14</sub> | -159.95          | -262.17           | -3.45             | 143.76             | -281.81          | -35.23                 | -46.25            | -30.71            | -28.79            | -54.20              |
| W <sub>8</sub> S <sub>15</sub> | -151.64          | -238.85           | -4.19             | 123.51             | -271.17          | -33.90                 | -36.89            | -28.63            | -26.86            | -59.27              |
| W <sub>8</sub> S <sub>16</sub> | -151.42          | -239.36           | -4.03             | 124.96             | -269.85          | -33.73                 | -37.12            | -28.95            | -27.32            | -58.03              |
| W <sub>8</sub> S <sub>17</sub> | -148.39          | -236.35           | -3.84             | 122.69             | -265.89          | -33.24                 | -36.19            | -28.21            | -26.87            | -57.12              |
| W <sub>8</sub> S <sub>18</sub> | -152.20          | -245.76           | -3.41             | 135.81             | -265.56          | -33.20                 | -43.14            | -30.32            | -27.02            | -51.71              |
| W <sub>8</sub> S <sub>19</sub> | -134.62          | -223.16           | -5.47             | 88.97              | -274.28          | -34.29                 | -24.69            | -22.94            | -21.54            | -65.45              |
| W <sub>8</sub> S <sub>20</sub> | -147.55          | -221.85           | -4.14             | 118.67             | -254.87          | -31.86                 | -37.66            | -26.85            | -26.35            | -56.69              |
| W <sub>8</sub> S <sub>21</sub> | -147.34          | -227.31           | -3.35             | 130.00             | -248.00          | -31.00                 | -40.28            | -29.87            | -27.88            | -49.31              |
| W <sub>8</sub> S <sub>22</sub> | -135.27          | -200.23           | -6.02             | 81.48              | -260.04          | -32.51                 | -22.74            | -22.70            | -23.01            | -66.82              |
| W <sub>8</sub> S <sub>23</sub> | -169.96          | -278.08           | -2.15             | 159.13             | -291.06          | -36.38                 | -61.14            | -46.73            | -21.58            | -40.51              |
|                                |                  |                   |                   |                    |                  |                        |                   |                   |                   |                     |
| W <sub>12</sub> S <sub>1</sub> | -149.68          | -264.42           | -6.84             | 91.29              | -329.65          | -27.47                 | -25.16            | -25.07            | -23.46            | -76.00              |
| W <sub>16</sub> S <sub>1</sub> | -158.42          | -242.12           | -8.38             | 86.44              | -322.48          | -20.16                 | -27.63            | -25.91            | -25.58            | -79.30              |

Fig. S3 Deformation density plots of the pairwise orbital interaction in Pb-(H<sub>2</sub>O)<sub>n</sub> systems for an isosurface value of 0.005 a.u for global minima and most solvated systems. Energies are provided in kcal/mol. The charge of the deformation densities moves from red to blue.

