

| C  | DEPT            | Trixol | 2     | 3     | 4      | 5      |
|----|-----------------|--------|-------|-------|--------|--------|
| 1  | C-O             | 72.92  | 82.37 | 72.76 | 81.86  | 85.29  |
| 2  | CH              | 27.65  | 26.76 | 26.99 | 26.68  | 25.06  |
| 3  | CH              | 27.65  | 26.76 | 26.99 | 26.68  | 25.06  |
| 4  | C-O             | 72.92  | 82.37 | 72.76 | 81.86  | 85.29  |
| 5  | CH <sub>2</sub> | 38.97  | 37.37 | 38.93 | 36.92  | 37.74  |
| 5  | CH <sub>2</sub> | 29.08  | 28.82 | 28.70 | 28.88  | 29.43  |
| 7  | CH-O            | 76.18  | 82.73 | 75.82 | 83.51  | 75.32  |
| 8  | CH              | 39.03  | 38.11 | 38.61 | 38.02  | 38.39  |
| 9  | CH <sub>2</sub> | 33.87  | 32.68 | 33.53 | 32.73  | 33.46  |
| 0  | CH <sub>2</sub> | 25.50  | 24.99 | 25.08 | 24.91  | 25.04  |
| 1  | CH <sub>2</sub> | 25.50  | 24.99 | 25.08 | 24.91  | 25.04  |
| 2  | CH <sub>2</sub> | 33.87  | 32.68 | 33.53 | 32.73  | 33.46  |
| 3  | CH              | 39.03  | 38.11 | 38.61 | 38.02  | 38.39  |
| 4' | CH-O            | 76.18  | 82.73 | 75.82 | 83.51  | 75.32  |
| 5  | CH <sub>2</sub> | 29.08  | 28.82 | 28.70 | 28.88  | 29.43  |
| 6  | CH <sub>2</sub> | 38.97  | 37.37 | 38.93 | 36.92  | 37.74  |
| 7  | CH <sub>2</sub> | 42.23  | 41.64 | 41.75 | 41.09  | 36.98  |
| 7' | CH <sub>2</sub> | 42.23  | 41.64 | 41.75 | 41.09  | 36.98  |
| 8  | CH <sub>2</sub> | 17.83  | 18.56 | 17.36 | 19.07  | 28.42  |
| 8' | CH <sub>2</sub> | 17.80  | 18.56 | 17.36 | 19.07  | 28.42  |
| 9  | *               | 39.67  | 38.31 | 38.43 | 44.11  | 83.29  |
| 9' | *               | 39.58  | 38.31 | 38.43 | 44.11  | 83.29  |
| 0  | C-O             | 73.56  | 74.65 | 74.37 | 209.06 | 210.01 |
| 0' | C-O             | 73.53  | 74.65 | 74.37 | 209.06 | 210.01 |
| 1  | CH-O            | 75.85  | 76.54 | 76.68 | -      | -      |
| 1' | CH-O            | 75.57  | 76.54 | 76.68 | -      | -      |
| 2  | CH <sub>2</sub> | 63.63  | 63.23 | 63.05 | -      | -      |
| 2' | CH <sub>2</sub> | 63.61  | 63.23 | 63.05 | -      | -      |
| 3  | CH <sub>2</sub> | 39.67  | 39.40 | 39.32 | 39.27  | 39.26  |
| 3' | CH <sub>2</sub> | 39.67  | 39.40 | 39.32 | 39.27  | 39.26  |
| 4  | CH              | 28.34  | 27.96 | 27.97 | 27.88  | 27.83  |
| 4' | CH              | 28.34  | 27.96 | 27.97 | 27.88  | 27.83  |
| 5  | CH <sub>3</sub> | 23.11  | 22.77 | 22.71 | 22.69  | 22.63  |
| 5' | CH <sub>3</sub> | 23.11  | 22.77 | 22.71 | 22.69  | 22.63  |
| 6  | CH <sub>3</sub> | 22.96  | 22.56 | 22.57 | 22.46  | 22.50  |
| 6' | CH <sub>3</sub> | 22.96  | 22.56 | 22.57 | 22.46  | 22.50  |
| 7  | CH <sub>3</sub> | 23.67  | 23.42 | 23.19 | 29.79  | 25.85  |
| 7' | CH <sub>3</sub> | 23.62  | 23.42 | 23.19 | 29.79  | 25.85  |
| 8  | CH <sub>3</sub> | 14.31  | 16.03 | 14.09 | 15.87  | 13.64  |
| 8' | CH <sub>3</sub> | 14.31  | 16.03 | 14.09 | 15.87  | 13.64  |
| 9  | C=O             | 176.60 | -     | -     | -      | -      |
| 9  | C=O             | 172.97 | -     | -     | -      | -      |
| 0  | CH <sub>2</sub> | 43.91  | -     | -     | -      | -      |
| 0' | CH              | 41.67  | -     | -     | -      | -      |
| 1' | CH <sub>2</sub> | 27.13  | -     | -     | -      | -      |
| 1  | CH              | 26.13  | -     | -     | -      | -      |
| 2  | CH <sub>3</sub> | 22.69  | -     | -     | -      | -      |
| 2' | CH <sub>3</sub> | 11.92  | -     | -     | -      | -      |
| 3  | CH <sub>3</sub> | 22.75  | -     | -     | -      | -      |
| 3' | CH <sub>3</sub> | 17.18  | -     | -     | -      | -      |
| 4  | C=O             | 171.41 | -     | -     | -      | -      |
| 4' | C=O             | 171.39 | -     | -     | -      | -      |
| 5  | CH <sub>3</sub> | 21.21  | -     | -     | -      | -      |
| 5' | CH <sub>3</sub> | 21.20  | -     | -     | -      | -      |

\* CH<sub>2</sub> for Trixol, **2**, **3** and **4**; CH for **5**.

|                  |                           |               |               |               |                     |
|------------------|---------------------------|---------------|---------------|---------------|---------------------|
| 2                | 1.18 (m)                  | 1.17 (m)      | 1.17 (m)      | 1.18 (m)      | 1.23 (m)            |
| 3                | 1.18 (m)                  | 1.17 (m)      | 1.17 (m)      | 1.18 (m)      | 1.23 (m)            |
| 5a               | 1.68 (m)                  | 1.75 (m)      | 1.68 (m)      | 1.75 (m)      | 1.75 (m)            |
| 5b               | 1.52 (m)                  | 1.63 (m)      | 1.45 (m)      | 1.62 (m)      | 1.64 (m)            |
| 6a               | 1.50 (m)                  | 1.85 (m)      | 1.45 (m)      | 1.85 (m)      | 1.60 (m)            |
| 6b               | 1.50 (m)                  | 1.63 (m)      | 1.45 (m)      | 1.62 (m)      | 1.45 (m)            |
| 7                | 3.46 (ddd; 3.7; 4.0; 8.2) | 3.68 (m)      | 3.42 (m)      | 3.72 (m)      | 3.49 (dt; 4.0; 8.0) |
| 8                | 1.50 (m)                  | 1.50 (m)      | 1.48 (m)      | 1.48 (m)      | 1.50 (m)            |
| 9a               | 1.40 (m)                  | 1.38 (m)      | 1.37 (m)      | 1.40 (m)      | 1.42 (m)            |
| 9b               | 1.16 (m)                  | 1.02 (m)      | 1.10 (m)      | 1.01 (m)      | 1.17 (m)            |
| 10a              | 1.38 (m)                  | 1.38 (m)      | 1.36 (m)      | 1.38 (m)      | 1.38 (m)            |
| 10b              | 1.25 (m)                  | 1.20 (m)      | 1.25 (m)      | 1.20 (m)      | 1.28 (m)            |
| 11a              | 1.38 (m)                  | 1.38 (m)      | 1.36 (m)      | 1.38 (m)      | 1.38 (m)            |
| 11b              | 1.25 (m)                  | 1.20 (m)      | 1.25 (m)      | 1.20 (m)      | 1.28 (m)            |
| 12a              | 1.40 (m)                  | 1.38 (m)      | 1.37 (m)      | 1.40 (m)      | 1.42 (m)            |
| 12b              | 1.16 (m)                  | 1.02 (m)      | 1.10 (m)      | 1.01 (m)      | 1.17 (m)            |
| 13               | 1.50 (m)                  | 1.50 (m)      | 1.48 (m)      | 1.48 (m)      | 1.50 (m)            |
| 14               | 3.46 (ddd; 3.7; 4.0; 8.2) | 3.68 (m)      | 3.42 (m)      | 3.72 (m)      | 3.49 (dt; 4.0; 8.0) |
| 15a              | 1.50 (m)                  | 1.85 (m)      | 1.45 (m)      | 1.85 (m)      | 1.60 (m)            |
| 15b <sub>1</sub> | 1.50 (m)                  | 1.63 (m)      | 1.45 (m)      | 1.62 (m)      | 1.45 (m)            |
| 16a              | 1.68 (m)                  | 1.75 (m)      | 1.68 (m)      | 1.75 (m)      | 1.75 (m)            |
| 16b              | 1.52 (m)                  | 1.63 (m)      | 1.45 (m)      | 1.62 (m)      | 1.64 (m)            |
| 17a              | 1.48 (m)                  | 1.49 (m)      | 1.43 (m)      | 1.45 (m)      | 1.85 (m)            |
| 17a'             | 1.48 (m)                  | 1.49 (m)      | 1.43 (m)      | 1.45 (m)      | 1.85 (m)            |
| 17b              | 1.48 (m)                  | 1.49 (m)      | 1.43 (m)      | 1.45 (m)      | 1.75 (m)            |
| 17b'             | 1.48 (m)                  | 1.49 (m)      | 1.43 (m)      | 1.45 (m)      | 1.75 (m)            |
| 18a              | 1.48 (m)                  | 1.50 (m)      | 1.50 (m)      | 1.63 (m)      | 2.27 (m)            |
| 18a'             | 1.48 (m)                  | 1.50 (m)      | 1.50 (m)      | 1.63 (m)      | 2.27 (m)            |
| 18b              | 1.48 (m)                  | 1.50 (m)      | 1.37 (m)      | 1.63 (m)      | 2.00 (m)            |
| 18b'             | 1.48 (m)                  | 1.50 (m)      | 1.37 (m)      | 1.63 (m)      | 2.00 (m)            |
| 19a              | 1.45 (m)                  | 1.60 (m)      | 1.58 (m)      | 2.44 (t; 7.2) | 4.39 (dd; 8.0; 7.0) |
| 19a'             | 1.45 (m)                  | 1.60 (m)      | 1.58 (m)      | 2.44 (t; 7.2) | 4.39 (dd; 8.0; 7.0) |
| 19b              | 1.20 (m)                  | 1.45 (m)      | 1.35 (m)      | 2.44 (t; 7.2) | 4.39 (dd; 8.0; 7.0) |
| 19b'             | 1.20 (m)                  | 1.45 (m)      | 1.35 (m)      | 2.44 (t; 7.2) | 4.39 (dd; 8.0; 7.0) |
| 21               | 5.12 (dd; 2.3; 8.9)       | 3.47 (m)      | 3.53 (m)      | -             | -                   |
| 21'              | 5.13 (dd; 2.3; 8.9)       | 3.47 (m)      | 3.53 (m)      | -             | -                   |
| 22a              | 4.55 (dd; 2.3; 11.9)      | 3.72 (m)      | 3.75 (m)      | -             | -                   |
| 22b              | 4.09 (dd; 8.9; 11.9)      | 3.72 (m)      | 3.64 (m)      | -             | -                   |
| 22a'             | 4.55(dd; 2.3; 11.9)       | 3.72 (m)      | 3.75 (m)      | -             | -                   |
| 22b'             | 4.11 (dd; 8.9; 11.9)      | 3.72 (m)      | 3.64 (m)      | -             | -                   |
| 23               | 1.18 (m)                  | 1.14 (m)      | 1.15 (m)      | 1.15 (m)      | 1.18 (m)            |
| 23'              | 1.18 (m)                  | 1.14 (m)      | 1.15 (m)      | 1.15 (m)      | 1.18 (m)            |
| 24               | 1.54 (m)                  | 1.54 (m)      | 1.52 (m)      | 1.51 (m)      | 1.55 (m)            |
| 24'              | 1.54 (m)                  | 1.54 (m)      | 1.52 (m)      | 1.51 (m)      | 1.55 (m)            |
| 25               | 0.87 (d; 6.7)             | 0.86 (d; 6.6) | 0.87 (d; 6.8) | 0.87 (d; 6.6) | 0.87 (d; 6.2)       |
| 25'              | 0.87 (d; 6.7)             | 0.86 (d; 6.6) | 0.87 (d; 6.8) | 0.87 (d; 6.6) | 0.87 (d; 6.2)       |
| 26               | 0.86 (d; 6.4)             | 0.85 (d; 6.6) | 0.86 (d; 6.8) | 0.86 (d.6.6)  | 0.87 (d; 6.2)       |
| 26'              | 0.86 (d; 6.4)             | 0.85 (d; 6.6) | 0.86 (d; 6.8) | 0.86 (d.6.6)  | 0.87 (d; 6.2)       |
| 28               | 0.88 (d; 6.6)             | 0.90 (d; 6.6) | 0.88 (d.6.4)  | 090 (d; 6.6)  | 090 (d; 6.0)        |
| 28'              | 0.88 (d; 6.6)             | 0.90 (d; 6.6) | 0.88 (d.6.4)  | 090 (d; 6.6)  | 090 (d; 6.0)        |
| 30               | 2.25 (m)                  | -             | -             | -             | -                   |
| 30'              | 2.45 (m)                  | -             | -             | -             | -                   |
| 31               | 2.15 (m)                  | -             | -             | -             | -                   |
| 31a'             | 1.70 (m)                  | -             | -             | -             | -                   |
| 31b'             | 1.50 (m)                  | -             | -             | -             | -                   |
| 32               | 0.98 (d; 6.6)             | -             | -             | -             | -                   |
| 32'              | 0.93 (t; 7.4)             | -             | -             | -             | -                   |
| 33               | 0.98 (d; 6.6)             | -             | -             | -             | -                   |
| 33'              | 1.17 (d; 6.9)             | -             | -             | -             | -                   |
| 35               | 2.01 (s)                  | -             | -             | -             | -                   |
| 35'              | 2.00 (s)                  | -             | -             | -             | -                   |
| 35               | 1.18 (s)                  | 1.22 (s)      | 1.18 (s)      | 2.13 (s)      | 2.18 (s)            |
| 35'              | 1.18 (s)                  | 1.22 (s)      | 1.18 (s)      | 2.13 (s)      | 2.18 (s)            |