Nr.

|  | Alkanes and Alken |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Propane ( $\mathrm{C}_{2}$ ) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 2 | Hexane ( $\mathrm{C}_{6}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [57] |
| 3 | Undecane ( $\mathrm{C}_{11}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [57] |
| 4 | Tridecane ( $\mathrm{C}_{13}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 5 | Tetradecane ( $\mathrm{C}_{14}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 6 | Pentadecane ( $\mathrm{C}_{15}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 7 | Hexadecane ( $\mathrm{C}_{16}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 8 | Heptadecane ( $\mathrm{C}_{17}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 9 | Octadecane ( $\mathrm{C}_{18}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 10 | Nonadecane ( $\mathrm{C}_{19}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 11 | Eicosane ( $\mathrm{C}_{20}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 12 | Heneicosane ( $\mathrm{C}_{21}$ ) | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 13 | Docosane ( $\mathrm{C}_{22}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 14 | Tricosane ( $\mathrm{C}_{23}$ ) | $+{ }^{\text {a }}$ | nd | $+{ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[43]; ${ }^{\text {b }}$ [56] |
| 15 | Tetracosane ( $\mathrm{C}_{24}$ ) | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[43]; b[56] |
| 16 | Pentacosane ( $\mathrm{C}_{25}$ ) | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 17 | Hexacosane ( $\mathrm{C}_{26}$ ) | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 18 | Heptacosane ( $\mathrm{C}_{27}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 19 | Octacosane ( $\mathrm{C}_{28}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |


| 20 | Nonacosane ( $\mathrm{C}_{29}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21 | Triacontane ( $\mathrm{C}_{30}$ ) | + | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; ${ }^{\text {b [58] }}$ |
| 22 | Hentriacontane ( $\mathrm{C}_{31}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 23 | Dotriacontane ( $\mathrm{C}_{32}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 24 | Tritriacontane ( $\mathrm{C}_{33}$ ) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 25 | Tetracontane ( $\mathrm{C}_{34}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 26 | Pentatriacontane ( $\mathrm{C}_{35}$ ) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 27 | Tetratetracontane (C44) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 28 | Tetradec-1-ene | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 29 | 2-Bromo-eicos-9-ene* | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| Fatty acids, Acylglycerols and Derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | Pentanoic acid (Valeric acid) | nd | nd | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{aligned} & \text { }{ }^{\mathrm{a}[57]} \\ & \mathrm{b}[64] \end{aligned}$ |
| 31 | Hexanoic acid (Caproic acid) | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 32 | Octanoic acid (Caprylic acid) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | +c | nd | nd | nd | nd | nd | ${ }^{\text {a [68] }}$; b[232]; c[59] |
| 33 | Non-6-enoic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 34 | Decanoic acid (Capric acid) | nd | nd | nd | +a | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [68]; ${ }^{\text {b [64] }}$ |
| 35 | Dodecanoic acid (Lauric acid) | +a | nd | +b | +c | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |  | nd | nd | nd | nd | nd | a[233]; b[57]; c[68] |
| 36 | Tetradecanoic acid (Myristic acid) |  |  | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd |  | nd | nd | +c | nd | nd | nd | nd | nd | $\left.{ }^{\text {a }} 433\right] ; \mathrm{b}[68] ;$ c[59] |
| 37 | Ethyl pentadecanoic acid | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 38 | Pentadecanoic acid | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | +c | nd | nd | nd | nd | nd | Nd | nd | nd | nd | nd | nd | ${ }^{\text {a [43] }}$; b 566$] ;$ c 67$]$ |
| 39 | Pentadecenoic acid | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | a[56]; b[59] |
| 40 | Ethyl hexadecanoate | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |


| 41 | Hexadecanoic acid (Palmitic acid) | +a | nd | +b | +c | +d | nd | nd | nd | +e | nd | nd | nd | nd | nd | nd | nd | nd | +f | nd | nd | a[43];b[56,57], c[68]; d[58,64-66]; [67]; f[69] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 42 | Hexadec-9-enoic acid (Palmitoleic acid) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | [69] |
| 43 | Heptadecanoic acid (Margaric acid) | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; $\left.{ }^{\text {b }} 566\right]$ |
| 44 | Heptadecenoic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 45 | Ethyl octadecanoate | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 46 | Octadecanoic acid (Stearic acid) | +a | nd | + ${ }^{\text {b }}$ | +c | +d | nd | nd | nd | +e | nd | nd | nd | nd | nd | + ${ }^{\text {f }}$ | nd | nd | +8 | nd | nd | a [43]; b[56]; c[68]; d[64]; e[67]; <br> ${ }^{\mathrm{f}}[59]$; $\mathrm{g}[69]$ |
| 47 | Ethyl octadecenoate | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 48 | Octadecenoic acid (Oleic acid) | nd | nd | +a | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | +c | nd | nd | nd | +d | nd | nd | nd | nd | nd | $\begin{aligned} & \mathrm{a}[56] ; \mathrm{b}[68] ; \\ & \mathrm{c}[232] ; \mathrm{d}[59] \end{aligned}$ |
| 49 | Ethyl Octadeca-9,12dienate | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 50 | Octadeca-9,12dienoic acid (Linoleic Acid) | +a | nd | nd | + ${ }^{\text {b }}$ | +c | nd | nd | nd | nd | nd | nd | nd | nd | nd | +d | nd | nd | +e | nd | nd | $\begin{gathered} \mathrm{a}[43] ; \mathrm{b}[68] ; \\ \mathrm{c}[65] ; \mathrm{d}[59] ; \mathrm{e}[69] \end{gathered}$ |
| 51 | Octadeca-8,11dienoic acid | nd | nd | nd | nd | +a | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [64]; ${ }^{\text {b [67] }}$ |
| 52 | Octadeca-9,12,15trienoic acid (Linolenic acid) | nd | nd | nd | nd | +a | nd | nd |  | nd | nd | +b | nd | nd | nd | +c | nd | nd | +d | nd | nd | $\begin{gathered} \text { a[64]; b[232]; } \\ \text { c[59]; d[69] } \end{gathered}$ |
| 53 | Nonadecanoic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 54 | Eicosanoic acid <br> (Arachidic acid) | +a | - | +b | nd | +c | - | - | - | +d | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{aligned} & \text { a[43]; b[56]; } \\ & \text { c[58]; d[67] } \end{aligned}$ |
| 55 | Heneicosanoic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 56 | Docosanoic acid (Behenic acid) | +a |  | nd | nd |  |  |  |  |  |  |  |  |  |  | +d | nd |  |  | nd | nd | $\begin{aligned} & \text { a[43]; b[58]; } \\ & \text { c[67]; d[59] } \end{aligned}$ |


| 57 | Docosahexaenoic acid (Cervonic acid) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | [232] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | Docosatetraenoic acid (Adrenic acid) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | [232] |
| 59 | Tricosanoic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 60 | Tetracosanoic acid (Lignoceric acid) | +a | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a [43]; b[67] |
| 61 | Pentacosanoic acid (Hyenic acid) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 62 | Hexacosanoic acid (Cerotic acid) | +a | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a 433$]$; $\left.{ }^{\text {b }} 67\right]$ |
| 63 | Heptacosanoic acid <br> (Carboceric acid) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 64 | Octacosanoic acid <br> (Montanic acid) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 65 | Nonacosanoic acid | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 66 | Triacontanoic acid (Melissic acid) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 67 | Hentriacontanoic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 68 | Dotriacontanoic acid (Lacceroic acid) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 69 | 2,3-Dihydroxypropyl tetradecanoate | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 70 | 2,3-Dihydroxypropyl hexadecanoate | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 71 | 2,3-Dihydroxypropyl octadecanoate | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 72 | 2,3-Dihydroxypropyl eicosanoate | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 73 | 2,3-Dihydroxypropyl docosanoate | $+$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |


| 74 | 2,3-Dihydroxypropyl tetracosanoate | + | nd | nd | nd | nd | nd |  |  |  |  |  |  |  |  |  |  | nd |  | nd | nd | [43] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 75 | 2,3-Dihydroxypropyl <br> hexacosanoate | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 76 | Dipalmitin | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 77 | Dipalmitin, 1,3-(P2) | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 78 | Distearin | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 79 | Palmitoylstearin | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| Cinnamic acids and derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 | Caffeic acid | nd | nd | nd | nd | +a | nd | nd | nd | nd | +b | +c | nd | nd | nd | nd | nd | nd | nd | nd | +d | $\begin{aligned} & \text { a[82]; b[86]; } \\ & \text { c[85]; d[92] } \end{aligned}$ |
| 81 | Cinnamic acid | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | +c | $\begin{gathered} \mathrm{a}[64,83] ; \mathrm{b}[85] ; \\ \mathrm{c}[92] \end{gathered}$ |
| 82 | $p$-Coumaric acid | nd | +a | nd | nd | +b | nd | nd | +c | nd | +d | +e | nd | nd | nd | nd | +f | nd | nd | nd | +8 | $\begin{gathered} \mathrm{a}[89] ; \mathrm{b}[58,82,83] ; \\ \mathrm{c}[90] ; \mathrm{d}[87] ; \\ \mathrm{e}[84,85] ; \mathrm{f}[91] ; \\ \mathrm{g}[55,92] \end{gathered}$ |
| 83 | $1-O-p-$ <br> coumaroylglycerol | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 84 | Ferulic acid | nd | +a | nd | nd | +b | nd | nd | +c | nd | +d | +e | nd | nd | nd | nd | nd | nd | nd | nd | +f | a [89]; b[58,234]; <br> c[90]; d[87]; e[84]; <br> ${ }^{f}[55,92]$ |
| 85 | Sinapic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [55,92] |
| Benzoic acids and Derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86 | Benzoic acid | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 87 | 1,2- <br> Benzenedicarboxylic acid | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | ${ }^{\text {a [56] }}$; ${ }^{\text {[59] }}$ |
| 88 | Gallic acid | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | ${ }^{\text {a }}$ [82]; ${ }^{\text {b [92] }}$ |
| 89 | Gentisic acid | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [89] |
| 90 | p-Hydroxybenzoic | nd | +a | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | +c | + ${ }^{\text {d }}$ | nd | nd | nd | nd | nd | nd | nd | nd | +e | ${ }^{\text {a }}$ [89]; |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \mathrm{b}[58,82,234] ; \\ {[88] ;} \\ \mathrm{d}[84] ; \mathrm{e}[92] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 91 | Homoveratric acid | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [89] |
| 92 | Syringic acid | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | +c | $\begin{aligned} & \mathrm{a}[58,64,82] ; \\ & \mathrm{b}[84] ; \mathrm{c}[92] \end{aligned}$ |
| 93 | Vanillic acid | nd | ${ }^{+a}$ | nd | nd | +b | nd | nd | nd | nd | +c | +d | nd | nd | nd | nd | nd | nd | nd | nd | +e | $\begin{gathered} \mathrm{a}[89] ; \mathrm{b}[58,64,234] ; \\ \mathrm{c}[88] ; \mathrm{d}[84] ; \mathrm{e}[92] \end{gathered}$ |
| 94 | Protocatechuic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [92] |
| Other Short Chain Carboxylic Acids and Derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95 | Ascorbic acid | nd | nd | nd | nd | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [82]; ${ }^{\text {b }}$ [110] |
| 96 | Citric acid | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
|  | Chlorogenic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [92] |
| 97 | Dihydroxybutyric acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 98 | Lactic acid | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 99 | Propanoic acid | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | a[64]; b[59] |
| 100 | Propanedioic acid (Malonic acid) | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 101 | Succinic acid | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
|  | Carbohydrates |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 102 | Arabinose | ${ }^{+a}$ | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a [43] }}$; b[107] |
| 103 | Xylose | +a | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a [235]; b [107] }}$ |
| 104 | Fructose | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | +c | nd | +d | nd | $\begin{gathered} \mathrm{a}[106] ; \mathrm{b}, \mathrm{c}[109] ; \\ \mathrm{d}[108] \end{gathered}$ |
| 105 | Galactose | +a | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[106]; b [107] |
| 106 | Glucose | +a | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | +c | nd | nd | + ${ }^{\text {d }}$ | nd | +e | nd | $\begin{aligned} & \text { ác [106]; b b } 107] ; \\ & \text { c, d [109]; e[108] } \end{aligned}$ |
| 107 | Mannose | +a | nd | nd | nd | +b | nd | nd | nd | nd | +c | nd | nd | nd | nd | +d | nd | nd | nd | nd | nd | $\begin{aligned} & \mathrm{a}[43] ; \mathrm{b}[64] ; \\ & \mathrm{c}[107] ; \mathrm{d}[59] \end{aligned}$ |
| 108 | Rhamnose | +a | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[43]; b[107] |
| 109 | Sucrose | +a | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | +c | nd | nd | + ${ }^{\text {d }}$ | nd | + | nd | ${ }^{\text {a [106] }}$; b ${ }^{\text {[10] }}$ |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | c, d[109]; e[108] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 110 | Trehalose | - | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | [108] |
| 111 | Raffinose | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [106] |
| 112 | Stachyose | - | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | [108] |
| 113 | Starch | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [106] |
| 114 | 4-O-methyl <br> glucuronic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| Amino Acids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115 | Alanine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 116 | Aspartate | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 117 | Asparagine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 118 | Cysteine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 119 | Glutamate | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 120 | Glycine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 121 | Glycinebetain | nd | nd | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | + ${ }^{\text {c }}$ | nd | nd | nd | ${ }^{\text {a [110] }}$; b, c[109] |
| 122 | Histidine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 123 | Leucine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 124 | Lysine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 125 | Methionine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 126 | Phenylalanine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 127 | Proline | nd | nd | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | +b | nd | nd | + | nd | nd | nd | ${ }_{\text {a }}$ [110]; ${ }^{\text {b, c [109] }}$ |
| 128 | Serotonin | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 129 | Threonine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 130 | Tyrosine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| 131 | Valine | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [110] |
| Alcohols, Aldehydes and Ketones |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 132 | Pent-4-en-1-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [57] |
| 133 | Butane-di-1,4-ol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 134 | But-2-en-3-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [57] |
| 135 | Hexanol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | [236] |
| 136 | Cyclohexanol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [57] |


| 137 | 2-Hexadecenol | nd | nd | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [56]; b [64,237] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | Octenol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | [236] |
| 139 | Undecan-1-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 140 | Undec-2-enol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 141 | Dodecanol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 142 | Tridecanol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56,57] |
| 143 | Pentadecanol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 144 | Hexacosanol | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; ${ }^{\text {b [238] }}$ |
| 145 | Heptadecan-1-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 146 | Octacosanol | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; ${ }^{\text {b }} 2388$ ] |
| 147 | Nonadecan-1-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 148 | Docosanol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | [238] |
| 149 | Tetracosanol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | [238] |
| 150 | Triacontanol | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; b [238] |
| 151 | Dotriacontanol | ${ }^{+a}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | a [43]; b[238] |
| 152 | Glycerol | nd | nd | nd | nd | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [66]; [110] |
| 153 | Benzenediol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 154 | Inositol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | [109] |
| 155 | 2-Methoxy-4vinylphenol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 156 | Pentadecanal | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 157 | Hexadecanal | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 158 | Octadecanal | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 159 | 9-Acetoxynonadal | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [59] |
| 160 | Hexacosanal | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 161 | Octacosanal | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 162 | Triacontanal | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 163 | Benzaldehyde | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 164 | 4-Hydroxy benzaldehyde | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [234] |


| 165 | Undecanone | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 166 | Pentadecanone | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| Triterpenoids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 167 | $\beta$-Amyrenone | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 168 | $\alpha$-Amyrenone | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 169 | $\beta$-Amyrin | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 170 | $\alpha$-Amyrin | +a | nd | nd | nd | nd | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{gathered} \mathrm{a}[43] \\ \mathrm{b}[239] \end{gathered}$ |
| 171 | $\beta$-Amyrinyl ester | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 172 | $\alpha$-Amyrinyl ester | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 173 | Arundoin | nd | nd | nd | nd | +a | nd | nd | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [58]; ${ }^{\text {b }}$ [88] |
| 174 | Cylindrin | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 175 | Fernenol | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 176 | Friedelin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 177 | Lupeol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 178 | Simiarenol | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 179 | Squalene | nd | nd | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [56]; ${ }^{\text {b }}$ [66] |
| 180 | Ursolic acid | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [233] |
| Sesquiterpenoids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 181 | Aromadendrene | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | [236] |
| 182 | Bisabolene | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 183 | Caryophyllene oxide | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [160] |
| 184 | Cylindrene | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [240] |
| 185 | Curlone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 186 | $\beta$-Eudesmol | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [160] |
| 187 | Eseroline | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [160] |
| 188 | Glutinone | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 189 | Tumerone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |


| Steroids and Derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | Androst-4-en-3-one | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 191 | Campesterol | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |


| 192 | Campesteryl 3- $\beta$ dglucopyranoside |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | nd | nd | nd | [43] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 193 | Cycloartenone | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 194 | Cholest-22-ene-21-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 195 | Ergost-5-en-3-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 196 | $\beta$-Sitosterol | +a | nd | nd | nd | + ${ }^{\text {b }}$ | +c | nd | nd | nd | + ${ }^{\text {d }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{gathered} \mathrm{a}[43,233] ; \mathrm{b}[58] ; \\ \mathrm{c}[53] ; \mathrm{d}[239] \end{gathered}$ |
| 197 | $\beta$-Sitosterol glucoside | +a | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | +c | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{gathered} \mathrm{a}[233] ; \mathrm{b}[53] ; \\ \mathrm{c}[239] \end{gathered}$ |
| 198 | 7-oxo-Sitosterol | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 199 | Sitosteryl ester | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 200 | Sitosteryl 3-B-dglucopyranoside | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 201 | Stigmasterol | +a | nd | +b | nd | nd | +c | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | $\begin{gathered} \text { a[43]; b[56]; } \\ \text { c[53] } \end{gathered}$ |
| 202 | Stigmastanol | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 203 | Stigmasta-3,5-dien-7one | +a | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; ${ }^{\text {b [56] }}$ |
| 204 | Stigmast-4-en-3-one | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[43]; b[56] |
| 205 | Stigmast-4-en-3,6dione | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43,233] |
| 206 | Stigmastane-3,6dione | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 207 | Stigmast-5-en-3 $3,7 \beta-$ diol | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [53] |
| 208 | Stigmast-5-en-3-ol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 209 | Stigmasteryl $3-\beta-\mathrm{d}-$ glucopyranoside | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| Other terpenoids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 210 | B-Carotene | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58,241] |
| 211 | Camphene | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [160] |


| 212 | Limonene | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [160] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 213 | Menthol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 214 | Naphthalene | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 215 | $\alpha$-Pinene | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | [236] |
| 216 | Phytol | nd | nd | ${ }^{\text {a }}$ | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | +c | nd | nd | nd | nd | nd | $\begin{gathered} \mathrm{a}[56] ; \\ \mathrm{b}[58,64-66] ; \mathrm{c}[59] \end{gathered}$ |


|  | Tocopherols |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 217 | Tocopherol | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [43]; ${ }^{\text {b [238] }}$ |
| 218 | $\beta$-Tocopherol | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 219 | $\alpha$-Tocopherol | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 220 | $\gamma$-Tocopherol | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
|  | Flavonoids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 221 | Apigenin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58,82] |
| 222 | Apigenin-8-Csophoroside | nd | nd | nd | nd | +a | nd | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [242]; ${ }^{\text {b }} 900$ |
| 223 | 6-C-pentosyl-8-Chexosylapigenin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [242] |
| 224 | Catechin | nd | nd | nd | +a | + ${ }^{\text {b }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +c | $\begin{gathered} \text { a }[68] ; \mathrm{b}[82,241] ; \\ \mathrm{c}[92] \end{gathered}$ |
| 225 | Ellagic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [92] |
| 226 | Epicatechin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [92] |
| 227 | Epigallocatechin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | [92] |
| 228 | Isoeugenin | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [87] |
| 229 | Isoorientin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 230 | Isovitexin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 231 | Kaempferol | nd | nd | nd | +a | +b | + ${ }^{\text {c }}$ | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | +d | $\begin{gathered} \text { a[68]; b[241]; } \\ \text { c[53]; d[92] } \end{gathered}$ |
| 232 | Lutein | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [241,242] |
| 233 | 6-C-hexosyl-8-Cpentosylluteolin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [242] |
| 234 | Myricetin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [82,241] |


| 235 | Naringin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [82] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 236 | Orientin $\quad 2^{\prime \prime}-O-$ xyloside | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | ${ }^{\text {a }}$ [58]; ${ }^{\text {b [91] }}$ |
| 237 | Procyanidin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [237] |
| 238 | Quercetin | nd | nd | nd | nd | +a | + ${ }^{\text {b }}$ | nd | +c | nd | nd | nd | +d | nd | nd | +e | nd | nd | nd | nd | + ${ }^{\text {f }}$ | $\begin{aligned} & \text { a[241]; } \mathrm{b}[53] ; \\ & \mathrm{c}[90] ; \mathrm{d}[243] ; \\ & \text { e[195]; ; f92] } \end{aligned}$ |
| 239 | Quercetin-3-Oglucoside | nd | nd | nd | nd | nd | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | ${ }^{\text {a }}$ [53];b[90] |
| 240 | Quercetin-7-O- <br> glucoside | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [53] |
| 241 | Rutin | nd | nd | nd | +a | +b | nd | nd | nd | nd | nd | nd | +c | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {d }}$ | $\begin{gathered} \mathrm{a}[68] ; \mathrm{b}[82,241] ; \\ \mathrm{c}[243] ; \mathrm{d}[92] \end{gathered}$ |
| 242 | Tricin | nd | nd | nd | nd | nd | +a | nd | +b | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | a[53];b[90] |
| 243 | Tricin-7-glucoside | nd | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd | nd | nd | nd | nd | + ${ }^{\text {b }}$ | nd | nd | nd | nd | a ${ }^{\text {[53] }}$; ${ }^{\text {[91] }}$ |
| 244 | $3,3^{\prime}, 4^{\prime}, 5^{\prime}-$ <br> tetrahydroxy-6,8dimethoxy flavone | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [195] |
| 245 | 5,7-dihydroxy3', 4', 5'-trimethoxy flavone | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [90] |
| 246 | $4,5,7-$ <br> Trihydroxyisoflavone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [237] |
| 247 | Dihydroxy-4'-methoxy-7oxyglucopyronoside flavone | nd | nd | nd | nd | nd | nd | nd |  | nd |  |  | nd | nd | nd | + | nd | nd | nd | nd | nd | [195] |
| 248 | Vitexin-2"-Oxyloside | nd | nd | nd | nd | +a | nd | nd | nd | nd | nd |  | nd | nd |  | nd | +b | nd | nd | nd | nd | ${ }^{\text {a }}$ [58]; $\left.{ }^{\text {b }} 91\right]$ |
| 249 | Vitexin-2"-Oglucoside | nd | nd | nd |  | nd |  |  |  |  |  |  | nd |  |  | nd |  | nd | nd | nd | nd | [91] |


| 250 | Cylindol A | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [244] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 251 | Cylindol B | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [244] |
| 252 | Graminone A | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [244] |
| 253 | Graminone B | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [244] |
| 254 | Imperanene | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [244] |
| 255 | Scopoletin | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [53] |
| 256 | Umbelliferone | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [53] |
| 257 | 4-methoxy-5-methyl coumarin-7-O-beta-D-glucopyranoside | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [88] |
| 258 | Violaxanthin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [241] |
| 259 | Zeaxanthin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [241] |
| Alkaloids |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 260 | Arundamine | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 261 | Bufotenidine | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 262 | Ergonovine | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 263 | Ergonovinine | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 264 | Gramine | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 265 | Lunamarine | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [68] |
| 266 | Pyrrolidine | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [56] |
| 267 | Pyrrolidin-2-one | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 268 | Pyrazolone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 269 | Ribalinidine | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [68] |
| 270 | Tryptamine | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [43] |
| 271 | Tyramine | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | [85] |
| Stilbenoids and derivatives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 272 | Caraphenol C | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 273 | Cystibenetrimerol A | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 274 | Cystibenetrimerol B | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 275 | Laetevirenol A | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 276 | Leachianol G | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |


| 277 | Leachianol F | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 278 | Pallidol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 279 | Parthenostilbenin B | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 280 | Parthenostilbenin A | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 281 | Quadrangularin B | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 282 | Quadrangularin C | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 283 | Quadrangularin A | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| 284 | Restrytisol B | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [150] |
| Other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 285 | Benzofuran | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 286 | Cyanogenic hyperoside | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 287 | Deacetylimpecyloside | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 288 | Furfural | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65,86,118,239] |
| 289 | Furfural alcohol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |
| 290 | Impecylone | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 291 | Impecylenolide | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 292 | Impecyloside | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 293 | Levoglucosenone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 294 | Maltol | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [65] |
| 295 | Oleamide | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | [59] |
| 296 | Pantolactone | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 297 | Pyran-4-one | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [64] |
| 298 | Seguinoside K | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 299 | Seguinoside K 4methylether | nd | nd | nd | nd | nd | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [86] |
| 300 | Triglochinin | nd | nd | nd | nd | + | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | [58] |

