|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Peak No.** | **Identified Compound Name (IUPAC)** | **Common Name** | **Compound Class** | **CAS No.** | **PubChem CID** | **Molecular Weight** | **Molecular Formula** | **% Area** | **Retention Time** |
| 1 | Dodecane | Dodecane | Alkane Hydrocarbon | 112-40-3 | 8182 | 170.34 | C12H26 | 9.37 | 9.213 |
| 2 | 4a,8-dimethyl-2-prop-1-en-2-yl-2,3,4,5,6,7-hexahydro-1H-naphthalene | Naphthalene | Aromatic Hydrocarbon | 41071-31-2 | 605019 | 204.357 | C15H24 | 0.64 | 14.949 |
| 3 | Diethyl benzene-1,2-dicarboxylate | Diethyl phthalate | Benzoic acid esters | 84-66-2 | 6781 | 222.24 | C12H14O4 | 2.29 | 17.725 |
| 4 | 4-trimethylsilyloxycyclohexan-1-ol | 1. Cis -1,4-cyclohexanediol,o-(trimethylsilyl) | Fatty Alcohols | 54725-69-8 | 554465 | 188.342 | C19 H20O2Si | 1.94 | 18.672 |
| 5 | (3E,5E)-2,6-dimethylocta-3,5-diene | 2,7-dimethylocta-3,5-diene | Alkenes | 28980-73-6 | 17939649 | 138.254 | C10 H18 | 0.91 | 19.126 |
| 6 | (6S) 6-methyloctan-1-ol | 6- Methyl-1-octanol | Aliphatic Hydroxy Compound | 110453-78-6 | 520908 | 144.258 | C9 H20O | 0.77 | 19.206 |
| 7 | Trimethylsilyl hexadecanoate | Palmitic acid | Fatty Acids | 55520-89-3 | 521638 | 328.612 | C19H40O2Si | 2.98 | 23.705 |
| 8 | Methyl 9,10-Dideutero-9-Octadecenoate | Methyl Elaidate | Fatty Acids | 1937-62-8 | 5280590 | 298.00 | C19H34D2O2 | 2.95 | 24.371 |
| 9 | Methyl 15-methylhexadecanoate | Hexadecanoic acid, 15-methyl-,methyl ester | Fatty Acids | 6929-04-0 | 522345 | 284.484 | C18H36O2 | 2.95 | 24.669 |
| 10 | bis(2-ethylhexyl) hexanedioate | Diethylhexyl adiapate | Esters | 103-23-1 | 7641 | 370.574 | C22 H42O4 | 18.9 | 27.56 |
| 11 | N-[4-(2-tert-butyl-5-oxo-1,3-dioxolan-4-yl)butyl]formamide | Formamide | Amide | NA | 582477 | 243.303 | C12H21NO4 | 1.35 | 28.651 |
| 12 | bis(2-ethylhexyl) benzene-1,2-dicarboxylate | Bis(2-ethylhexyl) phthalate | Esters | 117-81-7 | 8343 | 390.564 | C24H38O4 | 7.35 | 29.514 |
| 13 | Sarsasapogenin 3-tosylate | Tigogenin tosylate | Steroidal Glycoside | NA | 587000 | 570.829 | C34H50O5S | 4.43 | 36.693 |
| 14 | (3S,8S,9S,10R,13R,14S,17R)-17-[(2R,5R)-5-ethyl-6-methylheptan-2-yl]-10,13-dimethyl-2,3,4,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol | β-Sitosterol | Phytosterols | 83-46-5 | 222284 | 414.718 | C29H50O | 7.79 | 38.062 |
| 15 | 2,2,4a,7a-Tetramethyl-1,2a,3,4,5,6,7,7b-octahydrocyclobuta[e]inden-5-ol | 2,2,4a,7a-Tetramethyldecahydro-1H-cyclobuta[e]inden-5-ol | Sesquiterpenes | NA | 573804 | 222.372 | C15H26O | 4.97 | 39.568 |
| 16 | Neotigogenin | 25S-Tigogenin | Triterpenoids | 470-01-9 | 12304433 | 416.646 | C27H44O3 | 16.2 | 42.566 |
| 17 | (1R,2S,4S,5'R,6R,7S,8R,9S,12S,13S,18S)-5',7,9,13-tetramethylspiro[5 oxapentacyclo[10.8.0.02,9.04,8.013,18]icosane-6,2'-oxane]-16-one | Yuccagenone | Steroidal Glycoside | 470-07-5 | 101692 | 414.63 | C27H42O3 | 14.0 | 43.376 |

NA: Not Available, Database – Wiley 8. Lib. / NIST14.lib

**Table A.1: Identification of chemical constituents and their % content from roots of *Chlorophytum comosum* by GC/MS**

**Table 2 Identified chemical constituents and their % content from roots of *Chlorophytum comosum* by GC/MS**