|  |  |  |  |
| --- | --- | --- | --- |
| SERIAL NO | PLANT NAME | CHEMICAL COMPOUND | PUBCHEM CID |
| 01. | *Viscum articulatum* Burm. f | β‐linalool1 | 6549 |
| Hotrienol1 | 5366264 |
| 1-Octene-3-ol1 | 18827 |
| cis, Linalool oxide1 | 11116492 |
| α-Terpineol1 | 17100 |
| Geraniol1 | 637566 |
| β-Ionol1 | 5373729 |
| α-Cedrol1 | 65575 |
| α-Cadinol1 | 10398656 |
| Phytol1 | 5280435 |
| 2-Heptenal1 | 5283316 |
| Benzaldehyde1 | 240 |
| Octanal1 | 454 |
| 2-Octenal, (E)-1 | 5283324 |
| Cis-2-Nonenal1 | 5354833 |
| Safranal1 | 61041 |
| β-Cyclocitral1 | 9895 |
| (E)-2-Decenal1 | 5283345 |
| cis- Citral1 | 643779 |
| 6-Methyl-3,5-heptadien-2-one1 | 5370101 |
| 2-Decanone1 | 12741 |
| 2-Undecanone1 | 8163 |
| cis‐Jasmone1 | 1549018 |
| 6,10-Dimethyl-2-undecanone1 | 95495 |
| α-Ionone1 | 5282108 |
| Geranylacetone1 | 1549778 |
| β-Ionone1 | 638014 |
| Epoxy-β-ionone1 | 129689900 |
| 2-Pentadecanone, 6,10,14-trimethyl1 | 10408 |
| Trans-3-Hexenyl butyrate1 | 5352331 |
| Methyl salicylate1 | 4133 |
| Cis-3-Hexenyl isovalerate1 | 5367681 |
| γ-Nonanolide1 | 7710 |
| Nerol acetate1 | 1549025 |
| cis‐Hexanoic Acid, 3‐ hexenyl ester1 | 5352543 |
| Trans-2-Hexenyl caproate1 | 5352973 |
| Dihydro actinidiolide1 | 27209 |
| Methyl jasmonate1 | 5281929 |
| Pentadecanoic acid, 14-methyl-, methyl ester1 | 21205 |
| Palmitic acid, methyl ester1 | 8181 |
| Sabinene1 | 18818 |
| β-Caryophyllene1 | 5281515 |
| β-Cedrene1 | 11106485 |
| delta-Cadinene1 | 441005 |
| Tetradecane1 | 12389 |
| Hexadecane1 | 11006 |
| Heptadecane1 | 12398 |
| 2,6,10- Trimethyltetradecane1 | 85785 |
| Octadecane1 | 11635 |
| Octanoic acid1 | 379 |
| hexadecanoic acid1 | 985 |
| 4-Vinylphenol1 | 62453 |
| 2,6-Di-tert-butyl-4-methyl phenol1 | 31404 |
| Naphthalene1 | 931 |
| 1,6- Dimethylnaphthalene1 | 11328 |
| Elemicin1 | 10248 |
| Naringenin2 | 932 |
| Eriodictyol2 | 440735 |
| Eriodictyol 7-O-beta-D-glucopyranoside2 | 13254473 |
| Homoeriodictyol-7-O-beta-D-glucopyranoside-4’- O-beta-D-apiofuranoside2 | 122198191 |
| Visartiside A2 | 46184559 |
| Visartiside B2 | 46184560 |
| Visartiside D2 | 46184805 |
| Visartiside E2 | 46184806 |
| Visartiside F2 | 46184807 |
| p-hydroxybenzaldehyde2 | 126 |
| Vanillin2 | 1183 |
| Methylparaben2 | 7456 |
| p-hydroxybenzoic acid2 | 135 |
| Protocatechuic acid2 | 72 |
| 2-phenylethanol2 | 6054 |
| Cinnamic acid methyl ester2 | 637520 |
| 4-hydroxyphenylacetic acid2 | 127 |
| 2-deoxy-epi-inositol2 | 101715 |
| Oleanolic acid2 | 10494 |
| Betulinic acid2 | 64971 |
| Lupenyl acetate2 | 92157 |
| beta-amyrin acetate2 | 92156 |
| Homoeriodictyol3 | 73635 |
| 5,7-dihydroxychromone3 | 5281343 |
| 02. | *Yulania denudata* (Desr.) D. L. Fu | α-Thujene4 | 17868 |
| α-Pinene4 | 6654 |
| Camphene4 | 6616 |
| β-Thujene4 | 520384 |
| β-Pinene4 | 14896 |
| β-Myrcene4 | 31253 |
| α-Phellandrene4 | 7460 |
| α-Terpinene4 | 7462 |
| o-Cymene4 | 10703 |
| Limonene4 | 22311 |
| Eucalyptol4 | 2758 |
| γ-Terpinene4 | 7461 |
| cis-Sabinene hydrate4 | 101629835 |
| Terpinolene4 | 11463 |
| trans-Sabinene hydrate4 | 12315151 |
| Nonanal4 | 31289 |
| Phenylethyl alcohol4 | 6054 |
| Camphor4 | 2537 |
| δ-Terpineol4 | 81722 |
| Terpinen-4-ol4 | 11230 |
| α-Terpineol4 | 17100 |
| Bornyl acetate4 | 6448 |
| exo-2-Hydroxycineole acetate4 | 175002 |
| α-Terpinyl acetate4 | 111037 |
| α-Copaene4 | 19725 |
| β-Bourbonene4 | 324224 |
| β-Cubebene4 | 93081 |
| Caryophyllene4 | 5281515 |
| α-Caryophyllene4 | 5281520 |
| Germacrene D4 | 5317570 |
| γ-Selinene4 | 521334 |
| α-Muurolene4 | 12306047 |
| δ-Cadinene4 | 441005 |
| Elemol4 | 92138 |
| Germacrene B4 | 5281519 |
| Caryophyllene oxide4 | 1742210 |
| γ-Eudesmol4 | 6432005 |
| τ-Cadinol4 | 160799 |
| β-Eudesmol4 | 91457 |
| α-Eudesmol4 | 92762 |
| Heneicosane4 | 12403 |
| Oleic acid4 | 445639 |
| (Z)-6-Octadecenoic acid4 | 5281125 |
| Tricosane4 | 12534 |
| Pentacosane4 | 12406 |
| 03. | *Zanthoxylum bungeanum* Maxim. | Hydroxy-α-sanshool5 | 10084135 |
| α-Sanshool5 | 6440935 |
| Hydroxy-β-sanshool5 | 10220912 |
| β-Sanshool5 | 6506170 |
| Hydroxy-γ-sanshool5 | 14135317 |
| γ-Sanshool5 | 6440615 |
| (2E,4E)-2’-Hydroxy-N-isobutyl-2,4-tetradecadienamide5 | 5321844 |
| (2E,4E, 8Z)-2’-Hydroxy-N-isobutyl-2,4,8-tetradecatrienamide5 | 5316694 |
| N-[2-(3,4-Dimethoxyphenyl)ethyl]-3-phenyl-acrylamide5 | 272499 |
| Zanthobungeanine5 | 5315422 |
| Skimmianine5 | 6760 |
| Haplopine5 | 5281846 |
| Kokusaginine5 | 10227 |
| Linalool5 | 6549 |
| Limonene5 | 22311 |
| Geraniol5 | 637566 |
| p-Mentha-1,3,8-triene5 | 176983 |
| Citronellal5 | 7794 |
| Isopulegol5 | 170833 |
| Hotrienol5 | 5366264 |
| 4-Terpinenyl acetate5 | 20960 |
| cis-p-Mentha-2,8-dien-1-ol5 | 111274 |
| cis-p-2-Menthen-1-ol5 | 141999 |
| Citronellyl acetate5 | 9017 |
| trans-p-Mentha-2,8-dienol5 | 91753981 |
| p-Mentha-1,8-dien-4-ol5 | 527428 |
| Cryptone5 | 92780 |
| trans-Piperitol5 | 85568 |
| p-Menth-1-en-9-al5 | 520440 |
| trans-Carveol5 | 94221 |
| p-Mentha-1,8(10)-dien-9-ol5 | 527143 |
| Isopiperitenone5 | 79036 |
| 2,3-Dehydro-1,8-cineole5 | 523035 |
| trans-Sabinene hydrate5 | 12315151 |
| trans-Sabinene hydrate acetate5 | 6427504 |
| Pinocarvone5 | 121719 |
| Bornyl acetate5 | 6448 |
| Myrtenal5 | 61130 |
| trans-Pinocarveol5 | 88302 |
| Myrtenol5 | 10582 |
| α-Cubebene5 | 442359 |
| α-Bergamotene5 | 86608 |
| Germacrene B5 | 5281519 |
| γ-Cadinene5 | 92313 |
| α-Calacorene5 | 12302243 |
| β-Terpineol5 | 8748 |
| α-Terpineol5 | 17100 |
| α-Terpinene5 | 7462 |
| p-Cymene5 | 7463 |
| Neryl acetate5 | 1549025 |
| Geranyl acetate5 | 1549026 |
| Carvone5 | 7439 |
| β-Thujone5 | 91456 |
| β-Myrcene5 | 31253 |
| cis-Carveol5 | 330573 |
| Linalyl anthranilate5 | 23535 |
| Caryophyllene oxide5 | 1742210 |
| Germacrene D5 | 5317570 |
| Nerol5 | 643820 |
| Eucalyptol5 | 2758 |
| Camphene5 | 6616 |
| β-Caryophyllene5 | 5281515 |
| α-Cadinol5 | 10398656 |
| β-Elemene5 | 6918391 |
| Carvacrol5 | 10364 |
| (E)-β-Ocimene5 | 5281553 |
| (Z)-β-Ocimene5 | 5320250 |
| Sabinene5 | 18818 |
| α-Terpinyl acetate5 | 111037 |
| Piperitone5 | 6987 |
| α-Thujene5 | 17868 |
| β-Pinene5 | 14896 |
| β-Phellandrene5 | 11142 |
| γ-Terpinene5 | 7461 |
| α-Pinene5 | 6654 |
| Terpinolene5 | 11463 |
| Rutin5 | 5280805 |
| Syringetin-3-glucoside5 | 20056942 |
| Isorhamnetin-3-glucoside5 | 44258009 |
| Quercetin 3-arabinoside5 | 5481224 |
| 3,5,7,3’,4’-Pentahydroxyflavone5 | 44259090 |
| Quercetin 3-O-α-L-rhamnoside5 | 5280459 |
| Quercetin 3-O-β-D-glucoside5 | 5280804 |
| Trifolin5 | 5282149 |
| Quercetin 3-O-β-D-galactoside5 | 5281643 |
| Kaempferol 3-O-α-L-rhamnoside5 | 5316673 |
| Kaempferol-7-rhamnoside5 | 25079965 |
| Apigenin-8-C-glucoside5 | 5378180 |
| Quercetin-3-rutinoside-7-rhamnoside5 | 44259176 |
| Kaempferol-3-rutinoside5 | 5318767 |
| Isorhamnetin 7-glucoside5 | 6455477 |
| Chlorogenic acid5 | 1794427 |
| L-sesamin5 | 72307 |
| Quinic acid5 | 6508 |
| Epicatechin5 | 72276 |
| Nonanoic acid5 | 8158 |
| Tetradecanoic acid5 | 11005 |
| Pentadecanoic acid5 | 13849 |
| Hexadecanoic acid5 | 985 |
| Stearic acid5 | 5281 |
| Oleic acid5 | 445639 |
| Palmitoleic acid5 | 445638 |
| Linolenic acid5 | 5280934 |
| Linoleic acid5 | 5280450 |
| Rosefuran5 | 84825 |
| Myrcene epoxide5 | 122371 |
| Perillene5 | 68316 |
| β-Sitosterol5 | 222284 |
| Daucosterol5 | 5742590 |
| Isoimperatorin5 | 68081 |
| 7- Methoxycoumarin5 | 10748 |
| Xanthoxylin5 | 66654 |
| 2-Carene6 | 79044 |
| 3,7-Dimethyl-1,3,7-octatriene6 | 5320249 |
| 4-Carene6 | 530422 |
| 2,6-Dimethyl-2,4,6-octatriene6 | 5368821 |
| 4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol6 | 11230 |
| 3-Methyl-6-(1-methylethyl)-2-cyclohexen-1-ol6 | 10282 |
| 2-Methyl-3-phenyl-propanal6 | 95593 |
| 2-Isopropyl-5-methyl-3-cyclohexen-1-one6 | 573534 |
| 4-(1-Methylethyl)-1-cyclohexene-1-carboxaldehyde6 | 89488 |
| 4-(1-Methylethyl)-benzenemethanol6 | 325 |
| 1,5,5-Trimethyl-6-methylene-cyclohexene6 | 578237 |
| alpha-Caryophyllene6 | 5281520 |
| d-Germacrene6 | 5373727 |
| Eudesma-4(14),11-diene6 | 442393 |
| alpha-Farnesene6 | 5281516 |
| 1-(4-Hydroxy-3,5-dimethoxyphenyl)-ethanone6 | 17198 |
| Cadinol6 | 6428423 |
| Sylvestrene7 | 12304570 |
| (E)-p-Menth-2-en-1-ol7 | 122484 |
| (Z)-p-Menth-2-en-1-ol7 | 13918681 |
| Elixene7 | 94254 |
| Linalyl butanoate7 | 62321 |
| Germacrene D-4-ol7 | 5352847 |
| δ-Cadinene7 | 441005 |
| 2-endo-acetoxy-1,8-cineole8 | 11218113 |
| α-Methyl-α-[4-methyl-3-pentenyl]oxiranemethanol9 | 44144481 |
| D-Carvone9 | 16724 |
| Phenethyl acetate9 | 7654 |
| β-Cubebene9 | 93081 |
| Procyanidin B110 | 11250133 |
| Procyanidin B210 | 122738 |
| Catechin10 | 9064 |
| Quercetin-3-O-glucuronide10 | 5274585 |
| Quercetin10 | 5280343 |
| Quercetin-3 -O-α-L-arabinoside10 | 10252339 |
| Warfarin10 | 54678486 |
| Dicoumarol10 | 54676038 |
| Tetrahydroberberine10 | 34458 |
| Rutecarpine10 | 65752 |
| Chelerythrine11 | 2703 |
| Xanthyletin11 | 65188 |
| 04. | *Zea mays* Linn. | Para-aminobenzoic acid (PABA)12 | 978 |
| vanillic acid12 | 8468 |
| Hesperidin12 | 10621 |
| p-coumaric acid12 | 637542 |
| chlorogenic acid12 | 1794427 |
| protocatechuic acid12 | 72 |
| caffeic acid12 | 689043 |
| ferulic acid12 | 445858 |
| Catechin12 | 9064 |
| Quercetin12 | 5280343 |
| Rutin12 | 5280805 |
| Flavone12 | 10680 |
| Kaempferol12 | 5280863 |
| β-Carotene12 | 5280489 |
| Zeaxanthin12 | 5280899 |
| Stigmasterol12 | 5280794 |
| beta-sitosterol12 | 222284 |
| Gallotannins12 | 452707 |
| Menthol12 | 1254 |
| Carvacrol12 | 10364 |
| Thymol12 | 6989 |
| Eugenol12 | 3314 |
| cis-sabinene hydrate12 | 101629835 |
| Citronellol12 | 8842 |
| trans-pinocamphone12 | 11038 |
| Dextrose12 | 66370 |
| Xylose12 | 135191 |
| Geraniol12 | 637566 |
| Limonene12 | 22311 |
| α-terpineol12 | 17100 |
| Formononetin12 | 5280378 |
| Apigenin12 | 5280443 |
| Pelargonidin12 | 440832 |
| Hordenine12 | 68313 |
| Isoquercetin12 | 5280804 |
| Morin12 | 5281670 |
| Naringenin12 | 932 |
| Gallic acid12 | 370 |
| syringic acid12 | 10742 |
| 7-hydroxy-2-indolinone-3-acetic acid12 | 25201070 |
| Lutein12 | 5281243 |
| Cyclosadol12 | 12312851 |
| β-cryptoxanthin12 | 5281235 |
| Alpha- carotene12 | 6419725 |
| pelargonidin-3-glucoside12 | 443648 |
| peonidin-3-glucoside12 | 443654 |
| N-feruloyltryptamine12 | 5458878 |
| Choline12 | 305 |
| methyl ferulate12 | 5357283 |
| Tetrahydro-4,6-bis(4-hydroxy-3-methoxyphenyl)- 1H,3H-furo[3,4-c]furan-1-one12 | 129887737 |
| Tricin12 | 5281702 |
| salcolin B12 | 21575482 |
| Cyanidin-3-glucoside12 | 197081 |
| Methanol12 | 887 |
| Ethanol12 | 702 |
| Ethyl acetate12 | 8857 |
| Ribalinidine13 | 336322 |
| Quinine13 | 3034034 |
| Naringin13 | 442428 |
| Flavan-3-ol13 | 3707243 |
| Lunamarin13 | 442922 |
| Spartein13 | 644020 |
| Flavanone13 | 10251 |
| Epicatechin13 | 72276 |
| Resveratrol13 | 445154 |
| N-(p-coumaryl)-tryptamine14 | 129664298 |
| Glucoside14 | 64689 |
| Saponin14 | 198016 |
| Campesterol15 | 173183 |
| Anthocyanins15 | 145858 |
| pelargonidin-3- (6″malonylglucoside)15 | 44256635 |
| cyanidin-3-(3″, 6″ dimalonylglucoside)15 | 23724697 |
| linoleic acid15 | 5280450 |
| Lumichrome16 | 5326566 |
| Chrysoeriol16 | 5280666 |
| Genistein16 | 5280961 |
| Adenosine16 | 60961 |
| Guanosine16 | 135398635 |
| Uracil16 | 1174 |
| Acetovanillone16 | 2214 |
| Vanillin16 | 1183 |
| stigmast-4-en-3-one16 | 5484202 |
| Stigmastanone16 | 129638838 |
| 7alpha-hydroxysitosterol16 | 161816 |
| Sesquiterpene16 | 6473767 |
| Terrestroside B17 | 102594506 |
| Oleic acid18 | 445639 |
| δ-Tocopherol18 | 92094 |
| α -Tocopherol18 | 14985 |
| γ- Tocopherol18 | 92729 |
| cinnamic acid18 | 444539 |

**References**

1. Wang, Q. *et al.* Volatile components and nutritional qualities of Viscum articulatum Burm.f. parasitic on ancient tea trees. *Food Sci. Nutr.* **7**, 3017–3029 (2019).

2. Patel, B. P. & Singh, P. K. Viscum articulatum Burm. f.: a review on its phytochemistry, pharmacology and traditional uses. *J. Pharm. Pharmacol.* **70**, 159–177 (2018).

3. Li, Y., Zhao, Y. L., Yang, Y. P. & Li, X. L. Chemical constituents of Viscum album var. meridianum. *Biochem. Syst. Ecol.* **39**, 849–852 (2011).

4. Lei, G., Zhang, A., Liu, X. & Wang, L. Study on the recovered essential oil obtained from hydrosol of Yulania denudata fresh flowers. *J. Essent. Oil Res.* **27**, 153–159 (2015).

5. Zhang, M. *et al.* Zanthoxylum bungeanum Maxim. (Rutaceae): A systematic review of its traditional uses, botany, phytochemistry, pharmacology, pharmacokinetics, and toxicology. *Int. J. Mol. Sci.* **18**, (2017).

6. Wang, Z. *et al.* Improved solvent-free microwave extraction of essential oil from dried Cuminum cyminum L. and Zanthoxylum bungeanum Maxim. *J. Chromatogr. A* **1102**, 11–17 (2006).

7. Liu, S. ming *et al.* Characteristic differences in essential oil composition of six Zanthoxylum bungeanum Maxim. (Rutaceae) cultivars and their biological significance. *J. Zhejiang Univ. Sci. B* **18**, 917–920 (2017).

8. Gong, Y. *et al.* Chemical composition and antifungal activity of the fruit oil of zanthoxylum bungeanum maxim. (Rutaceae) from China. *J. Essent. Oil Res.* **21**, 174–178 (2009).

9. Rui-Xue Zhu. Essential oil composition and antibacterial activity of Zanthoxylum bungeanum. *African J. Microbiol. Res.* **5**, 4631–4637 (2011).

10. Ma, Y., Li, X., Hou, L. X. & Wei, A. Z. Extraction solvent affects the antioxidant, antimicrobial, cholinesterase and HepG2 human hepatocellular carcinoma cell inhibitory activities of Zanthoxylum bungeanum pericarps and the major chemical components. *Ind. Crops Prod.* **142**, 111872 (2019).

11. Zhang, Y., Luo, Z., Wang, D., He, F. & Li, D. Phytochemical profiles and antioxidant and antimicrobial activities of the leaves of zanthoxylum bungeanum. *Sci. World J.* **2014**, (2014).

12. Nawaz, H., Muzaffar, S., Aslam, M. & Ahmad, S. Phytochemical Composition: Antioxidant Potential and Biological Activities of Corn. *Corn - Prod. Hum. Heal. Chang. Clim.* (2018) doi:10.5772/intechopen.79648.

13. Duru, C. E. Mineral and phytochemical evaluation of Zea mays husk. *Sci. African* **7**, e00224 (2020).

14. Lien, E. J. C., Lien, L. L. M., Wang, R. & Wang, J. Phytochemical analysis of medicinal plants with kidney protective activities. *Chin. J. Integr. Med.* **18**, 790–800 (2012).

15. Rouf Shah, T., Prasad, K. & Kumar, P. Maize���A potential source of human nutrition and health: A review. *Cogent Food Agric.* **2**, (2016).

16. Suzuki, R., Iijima, M., Okada, Y. & Okuyama, T. Chemical constituents of the style of Zea mays L. with glycation inhibitory activity. *Chem. Pharm. Bull.* **55**, 153–155 (2007).

17. Tripathi, I. P. & Mishra, C. Phytochemical screening of some medicinal plants of Chitrakoot region. *Indian J. Appl. Res.* **5**, 56–60 (2015).

18. Butts-Wilmsmeyer, C. J., Mumm, R. H. & Bohn, M. O. Concentration of Beneficial Phytochemicals in Harvested Grain of U.S. Yellow Dent Maize (Zea mays L.) Germplasm. *J. Agric. Food Chem.* **65**, 8311–8318 (2017).