

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Myrtus communis*

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------------------------|------------|---------|----------|----------------------|--|
| 67 | 1,8-CINEOLE | Leaf | 135 | 2065 | -0.24081674980649576 | |
| 67 | 1,8-CINEOLE | Plant | 135 | 2065 | 0.01796423062126339 | |
| 0 | 2-BUTANOL | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-BUTANONE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-METHYL-BUT-3-EN-2-OL | Plant | 200 | 710 | | |
| 0 | 2-METHYL-BUTANAL | Plant | 2 | 6 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-METHYL-BUTANOL | Shoot | 0.8 | 7 | -1 | |
| 0 | 2-METHYL-BUTYL-2-METHYL-BUTYRATE | Plant | 2 | 6 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-METHYL-FURAN | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-METHYL-PROPANOL | Plant | 2 | 6 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-METHYL-PROPYL-2-METHYL-PROPIONATE | Plant | 2 | 6 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 3,6-DIGALLOYLGLUCOSE | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------------|------------|---------|----------|----------------------|--|
| 0 | 5-METHYL-3-HEXANONE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 16 | ACETIC-ACID | Plant | -- | 1 | -0.6988076937022064 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 3 | ACETONE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ALCOHOLS | Plant | 667 | 1000 | -0.6742987756649957 | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 0 | ALDEHYDES | Plant | 30 | 45 | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 0 | ALPHA-FENCHOL | Shoot | -- | 10 | -1.4142135623730954 | |
| 2 | ALPHA-HUMULENE | Plant | 3 | 4 | -0.7430109839502796 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ALPHA-MUUROLENE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ALPHA-P-DIMETHYL-STYRENE | Plant | -- | 1 | -1 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 11 | ALPHA-PHELLANDRENE | Shoot | 1 | 10 | -0.2839552167099319 | |
| 28 | ALPHA-PINENE | Plant | 242 | 1420 | 0.5234413297158256 | |
| 28 | ALPHA-PINENE | Leaf | 150 | 1420 | -0.10118788305965953 | |
| 3 | ALPHA-SELINENE | Plant | -- | 1 | -0.9595850100763278 | |
| 13 | ALPHA-TERPINENE | Shoot | -- | 4 | -0.47000816500737647 | |
| 23 | ALPHA-TERPINEOL | Plant | 58 | 88 | -0.4123445345033982 | |

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|----------------|------------------------|------------|---------|----------|----------------------|--|
| 23 | ALPHA-TERPINEOL | Leaf | 20 | 88 | 0.4629879079223302 | |
| 0 | ALPHA-TERPINYL-ACETATE | Plant | 58 | 88 | -0.42016529961533833 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ALPHA-THUJENE | Shoot | 2 | 18 | -0.23235009860030018 | |
| 3 | AR-CURCUMENE | Plant | 4 | 6 | -0.589673085617198 | |
| 6 | BETA-BISABOLENE | Plant | -- | 1 | -0.6535148941588209 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | BETA-CARYOPHYLLENE | Shoot | 7 | 40 | -0.3288775565477849 | |
| 5 | BETA-ELEMENE | Plant | 3 | 4 | -0.4608979924282207 | |
| 13 | BETA-PINENE | Plant | 2 | 8 | -0.4268487360991912 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 3 | BETA-SELINENE | Plant | -- | 1 | -0.7709379055711856 | |
| 35 | BORNEOL | Plant | -- | -- | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 12 | BORNYL-ACETATE | Plant | 12 | 18 | -0.45749105875331714 | |
| 0 | BUTYL-2-METHYLBUTYRATE | Plant | -- | 1 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CALACORENE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CALAMENENE | Plant | 1 | 2 | -0.7588347614195404 | |
| 9 | CAMPHENE | Plant | 8 | 30 | -0.5545069597862352 | |
| 41 | CAMPHOR | Plant | 12 | 18 | -0.6448042875195812 | |

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|----------------|----------------------|------------|---------|----------|----------------------|--|
| 37 | CARVACROL | Plant | 2 | 3 | -0.8663816025698796 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 19 | CARVONE | Plant | 8 | 12 | -0.4319279701992528 | |
| 0 | CARVYL-ACETATE-I | Shoot | 0.4 | 130 | | |
| 0 | CARVYL-ACETATE-II | Shoot | 0.8 | 6 | | |
| 31 | CARYOPHYLLENE | Plant | 3 | 4 | -0.5710991250271118 | |
| 8 | CARYOPHYLLENE-OXIDE | Plant | 2 | 3 | -0.4090592161629753 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CIS-MYRTENYL-ACETATE | Plant | 8 | 12 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 23 | CITRIC-ACID | Fruit | -- | -- | | |
| 2 | CITRONELLYL-ACETATE | Shoot | 2 | 8.5 | -0.20172491946646642 | |
| 1 | COPAENE | Plant | 2 | 8 | -0.7831643620957981 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 19 | D-LIMONENE | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | D-MYRTENOL | Plant | -- | -- | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 8 | DELTA-3-CARENE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | DELTA-CADINENE | Plant | 8 | 12 | -0.480204637192657 | |
| 7 | DIPENTENE | Plant | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------------|------------|---------|----------|----------------------|--|
| 51 | ELLAGIC-ACID | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | EO | Leaf | 1000 | 5000 | -0.5748200656170724 | |
| 0 | EO | Plant | 1667 | 5900 | -0.29173905112572635 | |
| 76 | EUGENOL | Shoot | 1 | 15 | -0.4811620591902165 | |
| 0 | FAT | Seed | 120000 | 150000 | -0.6077877171137942 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 6 | FURFURAL | Plant | -- | 1 | -0.8970149171498789 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 62 | GALLIC-ACID | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | GALLOTANNINS | Plant | -- | -- | | |
| 11 | GAMMA-TERPINENE | Plant | 185 | 278 | -0.4209013957366027 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 13 | GERANIAL | Shoot | -- | 1.5 | -0.6210581561316936 | |
| 35 | GERANIOL | Plant | 1 | 2 | -0.44931709206646747 | |
| 35 | GERANIOL | Leaf | 1 | 2 | -0.19564022822357305 | |
| 0 | GERANYL-2-METHYLOBUTYRATE | Plant | 4 | 6 | | |
| 0 | GERANYL-2-METHYLPROPIONATE | Plant | 4 | 6 | | |
| 5 | GERANYL-ACETATE | Leaf | 8 | 12 | 0.29682879796236855 | |

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|----------------|----------------------------|------------|---------|----------|---------------------|--|
| 5 | GERANYL-ACETATE | Plant | 8 | 12 | -0.55306285222535 | |
| 5 | HEXANAL | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 7 | ISOBORNEOL | Plant | -- | -- | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 0 | ISOBUTYL-2-METHYL-BUTYRATE | Shoot | 1 | 20 | | |
| 0 | ISOBUTYL-ISOBUTYRATE | Shoot | 10 | 110 | | |
| 0 | KAEMPFEROL-GLYCOSIDE | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| 0 | L-MYRTENOL | Plant | -- | -- | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 60 | LIMONENE | Leaf | 40 | 585 | 0.16763618493123245 | |
| 60 | LIMONENE | Plant | 185 | 585 | -0.1262705110543247 | |
| 0 | LIMONENE-OXIDE-I | Shoot | 0.4 | 2.5 | | |
| 0 | LIMONENE-OXIDE-II | Shoot | -- | 4.5 | 0.21270799391196718 | |
| 0 | LINALOL | Plant | 18 | 505 | -0.3180486984089818 | |
| 53 | LINALOOL | Plant | 18 | 505 | -0.5959988975523308 | |
| 7 | LINALYL-ACETATE | Plant | 18 | 28 | -0.5646034028299372 | |
| 27 | LINOLEIC-ACID | Seed | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------|------------|---------|----------|----------------------|--|
| 15 | MALIC-ACID | Fruit | -- | -- | | |
| 6 | METHYL-CHAVICOL | Plant | 58 | 88 | -1.0009165023038997 | |
| 20 | METHYL-EUGENOL | Plant | 8 | 12 | -0.6677721094092535 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 22 | MYRCENE | Plant | 2 | 6 | -0.46951072518303016 | |
| 34 | MYRICETIN | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 13 | MYRICITRIN | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | MYRISTIC-ACID | Seed | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | MYRTENAL | Plant | 4 | 6 | 1 | |
| 2 | MYRTENOL | Plant | 3 | 4 | -1 | |
| 2 | MYRTENOL | Leaf | 3 | 4 | 1.7099549006735737 | |
| 0 | MYRTENOLS | Plant | 334 | 500 | | Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952. |
| 0 | MYRTENYL-2-METHYL-BUTYRATE | Plant | 1 | 2 | | |
| 0 | MYRTENYL-2-METHYL-PROPIONATE | Plant | 8 | 12 | | |
| 1 | MYRTENYL-ACETATE | Leaf | 40 | 262 | | |
| 1 | MYRTENYL-ACETATE | Plant | 175 | 262 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------|------------|---------|----------|----------------------|--|
| 0 | MYRTOCOMMULON-A | Leaf | -- | -- | | |
| 0 | MYRTOCOMMULON-B | Leaf | -- | -- | | |
| 0 | MYRTOL | Leaf | -- | -- | | |
| 0 | MYRTUCUMMULONE-A | Plant | -- | -- | | J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991. |
| 4 | NERAL | Shoot | 1 | 2 | -0.5683722866724288 | |
| 10 | NEROL | Plant | -- | -- | | |
| 11 | NEROLIDOL | Shoot | -- | 5 | -0.3951214975377221 | |
| 5 | NERYL-ACETATE | Plant | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 18 | OLEIC-ACID | Seed | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | P-CYMEN-8-OL | Shoot | -- | 1 | -0.17036603907271525 | |
| 16 | P-CYMENE | Plant | 30 | 106 | -0.3926619251887391 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 13 | PALMITIC-ACID | Seed | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PENTADECANE | Plant | 1 | 2 | | |
| 0 | PERILLENE | Shoot | -- | 2.5 | -0.356535455724173 | |
| 0 | PROPANOL | Shoot | -- | 2 | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|----------------------|------------|---------|----------|----------------------|--|
| 0 | QUERCETIN-GLYCOSIDES | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| 0 | RESIN | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | SABINENE | Shoot | 0.4 | 3 | -0.29272781709699197 | |
| 0 | SUGAR | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 35 | TANNIN | Plant | 140000 | 140000 | 0.8228868573581 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 23 | TERPINEN-4-OL | Plant | 3 | 4 | -0.27974574786240924 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | TERPINOLENE | Plant | -- | 1 | -0.7291018522032187 | |
| 1 | TOLUENE | Plant | 200 | 710 | -1 | |
| 0 | TRANS-ALLO-OCIMENE | Plant | 2 | 6 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 8 | TRANS-ANETHOLE | Shoot | -- | 5 | -1 | |
| 0 | TRANS-CARVYL-ACETATE | Plant | -- | 1 | | |
| 0 | TRANS-OCIMENE | Shoot | 1 | 30 | -0.16788134283044173 | |
| 5 | VERBENONE | Plant | -- | 1 | -1.0163839203754967 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |