

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vanilla planifolia*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------|------------|----------|----------|----------------------|--|
| 0 | CARBOHYDRATES | Fruit | 305000.0 | 628000.0 | -0.8282319256478781 | -- |
| 0 | CARBOHYDRATE | Fruit | 305000.0 | 628000.0 | -0.952181616641961 | -- |
| 0 | SUGARS | Fruit | 71000.0 | 350000.0 | 0.5605086704894576 | -- |
| 14 | SUCROSE | Fruit | | 350000.0 | 1.7347732574703574 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | WATER | Fruit | 259000.0 | 309000.0 | -2.006974507734663 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 15 | FIBER | Fruit | 153000.0 | 263000.0 | 1.1448679867489784 | -- |
| 0 | FAT | Fruit | 47000.0 | 212000.0 | 0.9779868575999203 | -- |
| 0 | PROTEIN | Fruit | 26000.0 | 100000.0 | -0.12733205905952616 | -- |
| 0 | ASH | Fruit | 45000.0 | 97000.0 | 1.04452094337717 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 28 | VANILLIN | Fruit | 13000.0 | 30000.0 | 0.9999999999999999 | -- |
| 28 | CALCIUM | Fruit | | 19000.0 | 3.494569000908142 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 8 | FRUCTOSE | Fruit | | 7500.0 | -0.8217893887586457 | -- |
| 7 | GLUCOSE | Fruit | | 7500.0 | -0.8155094091619971 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 57 | COUMARIN | Fruit | | 6100.0 | | -- |
| 0 | EO | Fruit | | 6000.0 | -0.7033398289366377 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 6 | SYRINGIC-ACID | Fruit | 0.0 | 3000.0 | | -- |
| 4 | P-HYDROXYBENZALDEHYDE | Fruit | | 1040.0 | | -- |
| 4 | PHOSPHORUS | Fruit | | 700.0 | -0.7642076833184737 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|----------------------|--------------------|
| 0 | 5-(HYDROXYMETHYL)-2-FURANCARBOXALDEHYDE | Fruit | | 460.0 | | -- |
| 13 | PALMITIC-ACID | Fruit | | 258.0 | -0.36151909573594015 | -- |
| 16 | ACETIC-ACID | Fruit | | 151.0 | -0.5995643718999257 | -- |
| 0 | P-HYDROXYBENZYL METHYL ETHER | Fruit | 17.0 | 143.0 | | -- |
| 27 | LINOLEIC-ACID | Fruit | | 135.0 | -0.35349522483459317 | -- |
| 0 | 6-METHYL-3,5-DIHYDROXY-2,3-DIHYDRO-(4H)-PYRAN-4-ONE | Fruit | | 114.0 | | -- |
| 0 | 2-PENTANOL | Fruit | | 95.0 | | -- |
| 3 | METHYL-ACETATE | Fruit | | 84.0 | | -- |
| 0 | 2,4,6-TRIMETHYLACETOPHENE | Fruit | | 69.0 | | -- |
| 13 | FORMIC-ACID | Fruit | | 62.0 | -1.0 | -- |
| 0 | 2,4,6-HEPTANETRIONE | Fruit | | 57.0 | | -- |
| 6 | FURFURAL | Fruit | | 54.0 | -0.705230402031923 | -- |
| 0 | NONANAL | Fruit | | 53.0 | 1.8294072056713282 | -- |
| 0 | 4,4-DIMETHYL-3-HYDROXY-DIHYDRO-2-(3H)-FURANONE | Fruit | | 51.0 | | -- |
| 0 | P-METHOXYBENZOIC-ACID | Fruit | | 49.0 | | -- |
| 6 | ANISIC-ACID | Fruit | | 49.0 | | -- |
| 0 | 1,3-BUTANEDIOL | Fruit | | 47.0 | | -- |
| 0 | 4-(4-HYDROXYPHENYL)-2-BUTANONE | Fruit | | 46.0 | | -- |
| 13 | ZINGERONE | Fruit | | 46.0 | | -- |
| 8 | STEARIC-ACID | Fruit | | 39.0 | -0.2766350459688796 | -- |
| 0 | EICOSANE | Fruit | | 39.0 | | -- |
| 0 | PENTACOSENE | Fruit | | 39.0 | | -- |
| 0 | TRICOSENE | Fruit | | 38.0 | | -- |
| 0 | 1-HEXADECANOL | Fruit | | 38.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---|------------|---------|----------|---------------------|-------------------|
| 20 | BENZOIC-ACID | Fruit | | 38.0 | -0.6086964338676627 | -- |
| 0 | 4-HYDROXY-3-METHOXY-ACETOPHENONE | Fruit | | 37.0 | | -- |
| 0 | P-HYDROXYMETHYL-BENZOATE | Fruit | | 36.0 | | -- |
| 0 | P-ETHYL-GUAIACOL | Fruit | | 33.0 | | -- |
| 0 | 1-(4-HYDROXY-3-METHOXYPHENYL)-2-PROPANONE | Fruit | | 31.0 | | -- |
| 2 | NONANOIC-ACID | Fruit | | 31.0 | 1.4136549609901534 | -- |
| 1 | HEPTADECANOIC-ACID | Fruit | | 30.0 | | -- |
| 22 | CATECHOL | Fruit | | 29.0 | | -- |
| 0 | TRICOSANE | Fruit | | 29.0 | | -- |
| 1 | P-HYDROXYBENZYL-ALCOHOL | Fruit | | 29.0 | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Fruit | | 28.0 | -0.7998243325890123 | -- |
| 26 | PHENOL | Fruit | | 28.0 | 0.9999999999999999 | -- |
| 0 | VANILLYL-ACETATE | Fruit | | 27.0 | | -- |
| 0 | 3-METHYL-BUTANAL | Fruit | | 27.0 | | -- |
| 0 | 2,4-DECADIENAL | Fruit | | 25.0 | | -- |
| 0 | 2-OCTEN-4-OL | Fruit | | 25.0 | | -- |
| 0 | 10-METHYLEICOSANE | Fruit | | 25.0 | | -- |
| 0 | 3-METHYL-CYCLO-PENTANONE | Fruit | | 25.0 | | -- |
| 0 | 2-HYDROXY-5-METHYL-ACETOPHENONE | Fruit | | 24.0 | | -- |
| 0 | 5-METHYL-2-FURANCARBOXALDEHYDE | Fruit | | 24.0 | | -- |
| 1 | PENTADECANOIC-ACID | Fruit | | 24.0 | | -- |
| 0 | HEXACOSANE | Fruit | | 24.0 | | -- |
| 0 | 6,10,14-TRIMETHYL-2-PENTADECANONE | Fruit | | 23.0 | | -- |
| 0 | HENEICOSANE | Fruit | | 23.0 | | -- |
| 0 | DOCOSANE | Fruit | | 22.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|-------------------|---------|----------|--------------------|--------------------|
| 0 | METHYL-LINOLEATE | Fruit | | 21.0 | | -- |
| 0 | 2-METHOXY-PHENOL | Fruit | | 19.0 | | -- |
| 18 | GUAIACOL | Fruit | | 19.0 | | -- |
| 0 | 5-METHYL-TETRAHYDRO-2-FURANMETHANOL | Fruit | | 17.0 | | -- |
| 0 | 5-METHY-TETRAHYDRO-2-FURANMETHANOL | Fruit | | 17.0 | | -- |
| 0 | FURFUROL | Fruit | | 15.0 | -1.0 | -- |
| 7 | SALICYLATES | Essential Oil | 10.0 | 15.0 | | -- |
| 0 | 2-FURANCARBOXYLIC-ACID-METHYL-ESTER | Fruit | | 14.0 | | -- |
| 0 | METHYL-PALMITATE | Fruit | | 13.0 | 1.0000000000000002 | -- |
| 0 | TETRACOSANE | Fruit | | 13.0 | | -- |
| 0 | 1-TETRADECANOL | Fruit | | 13.0 | | -- |
| 18 | OLEIC-ACID | Fruit | | 13.0 | -0.480644966010065 | -- |
| 0 | VANILLYL-METHYL-ETHER | Fruit | | 13.0 | | -- |
| 6 | MYRISTIC-ACID | Fruit | | 12.0 | -0.268577588356776 | -- |
| 0 | 2-METHYL-3,5-DIHYDROXY-(4H)-PYRAN-4-ONE | Fruit | | 12.0 | | -- |
| 0 | VANILLIN-2,3-BUTYLENEGLYCOL-ACETATE | Fruit | | 10.0 | | -- |
| 4 | SYRINGALDEHYDE | Fruit | | 10.0 | | -- |
| 2 | ANISYL-ALCOHOL | Fruit | | 9.0 | -1.0 | -- |
| 0 | VANILLYL-ETHYL-ETHER | Fruit | | 3.0 | | -- |
| 0 | CIS-VITISPIRANE | Fruit Essent. Oil | | 0.5 | | -- |
| 0 | TRANS-VITISPIRANE | Fruit Essent. Oil | | 0.5 | | -- |
| 0 | PENTACOS-1-ENE | Fruit | | | | -- |
| 0 | HEXADECAN-2-ONE | Fruit | | | | -- |
| 0 | 3-METHYLHENTRIACONTANE | Fruit | | | | -- |
| 28 | VANILLIN | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|------------|---------|----------|--------|--|
| 0 | 4-(BETA-D-GLUCOSYL)-BENZYL-2-ISOPROPYLTARTRATE | Fruit | | | | -- |
| 0 | N-TETRACOSANE | Fruit | | | | -- |
| 0 | CIS-METHYL-CINNAMATE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | EICOS-1-ENE | Fruit | | | | -- |
| 2 | PHENYL-ACETALDEHYDE | Fruit | | | | -- |
| 0 | 5-ETHYLHEPTACOSANE | Fruit | | | | -- |
| 0 | N-HEPTADECANE | Fruit | | | | -- |
| 24 | VANILLIC-ACID | Fruit | | | | -- |
| 0 | CIS-CINNAMIC-ACID-METHYL-ESTER | Fruit | | | | -- |
| 0 | P-VINYL-GUAIACOL | Fruit | | | | -- |
| 0 | HEXADEC-1-ENE | Fruit | | | | -- |
| 0 | 3-METHYLEICOSANE | Fruit | | | | -- |
| 28 | VANILLIN | Root | | | | -- |
| 0 | P-HYDROZYBENZYL-METHYL-ETHER | Fruit | | | | -- |
| 0 | N-PENTATRIACONTANE | Fruit | | | | -- |
| 3 | CINNAMIC-ALCOHOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DOTRIACONT-1-ENE | Fruit | | | | -- |
| 0 | 5-ETHYLHENTRIACONTANE | Fruit | | | | -- |
| 2 | METHYL-ANISATE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | N-HEPTACOSANE | Fruit | | | | -- |
| 1 | ANISYLACETATE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|------------|---------|----------|--------|--|
| 0 | TRANS-METHYL-CINNAMATE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 6 | CINNAMYL-ALCOHOL | Fruit | | | | -- |
| 0 | OCTAN-1-OL | Fruit | | | | -- |
| 0 | HEPTACOS-1-ENE | Fruit | | | | -- |
| 0 | 3-METHYLDocosANE | Fruit | | | | -- |
| 28 | VANILLIN | Shoot | | | | -- |
| 0 | N-PENTADECANE | Fruit | | | | -- |
| 1 | CINNAMIC-ACID-ETHYL-ESTER | Plant | | | | -- |
| 0 | 4-HYDROXY-METHYL-PHENYL-BETA-D-GLUCOSIDE | Fruit | | | | -- |
| 15 | MALIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 3 | N-HENTRIACONTANE | Fruit | | | | -- |
| 0 | ANISYL-ETHYL-ETHER | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 35 | TANNIN | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 60 | CINNAMALDEHYDE | Fruit | | | | -- |
| 1 | OCTADEC-1-ENE | Fruit | | | | -- |
| 0 | HENTRIACONT-1-ENE | Fruit | | | | -- |
| 0 | 2-PHENYLETHYL-ALCOHOL | Fruit | | | | -- |
| 22 | UMBELLIFERONE | Fruit | | | | -- |
| 0 | N-PENTACOSANE | Fruit | | | | -- |
| 0 | 7-NONALACTONE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|---------|----------|--------|--|
| 0 | 3-PHENYL-PROPAN-1-OL | Fruit | | | | -- |
| 2 | ISOBUTYRIC-ACID | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | N-HENEICOSANE | Fruit | | | | -- |
| 0 | ANISIC-ALCOHOL | Fruit | | | | -- |
| 0 | BIS-(4-(BETA-D-GLUCOSYL)-BENZYL)-2-(1-METHYL-PROPYL)-TARTRATE | Fruit | | | | -- |
| 0 | OCT-1-EN-3-OL | Fruit | | | | -- |
| 0 | GLUCOVANILLYL-ALCOHOL | Fruit | | | | -- |
| 0 | TRANS-CINNAMIC-ACID-METHYL-ESTER | Fruit | | | | -- |
| 0 | TRITRIACONT-1-ENE | Fruit | | | | -- |
| 1 | P-CRESOL-METHYL-ETHER | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | N-OCTADECANE | Fruit | | | | -- |
| 1 | CAPROIC-ACID | Fruit | | | | -- |
| 0 | 5-METHYL-FURFURAL | Fruit | | | | -- |
| 0 | 3-METHYLTRITRIACONTANE | Fruit | | | | -- |
| 0 | HEPTANOIC-ACID | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | N-EICOSANE | Fruit | | | | -- |
| 0 | BENZOTHIAZOLE | Fruit | | | | -- |
| 0 | NONACOS-1-ENE | Fruit | | | | -- |
| 76 | EUGENOL | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 2 | GAMMA-UNDECALACTONE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|--------|--|
| 0 | P-HYDROXY-BENZYL-ETHYL-ETHER | Fruit | | | | -- |
| 0 | TRICOS-1-ENE | Fruit | | | | -- |
| 8 | P-CRESOL | Fruit | | | | -- |
| 0 | N-OCTACOSANE | Fruit | | | | -- |
| 0 | CAPRINIC-ACID-ESTER | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | 5-ETHYLTRITRIACONTANE | Fruit | | | | -- |
| 43 | CATECHIN | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | N-DOTRIACONTANE | Fruit | | | | -- |
| 7 | ANISALDEHYDE | Fruit | | | | -- |
| 0 | 3-METHYLTETRACOSANE | Fruit | | | | -- |
| 0 | RESIN | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | BENZOIC-ACID-METHYL-ESTER | Fruit | | | | -- |
| 0 | N-TRITRIACONTANE | Fruit | | | | -- |
| 1 | ETHYL-PALMITATE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | GAMMA-OCTALACTONE | Fruit | | | | -- |
| 4 | O-COUMARIC-ACID | Fruit | | | | -- |
| 9 | OXALIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | N-NONADECANE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------|------------|---------|----------|--------|--|
| 4 | CALCIUM-OXALATE | Plant | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | 5-ETHYLTETRADECANE | Fruit | | | | -- |
| 0 | DIHYDROACTINIDIOLIDE | Fruit | | | | -- |
| 0 | GLUCOVANILLIN | Fruit | | | | -- |
| 0 | N-DOCOSANE | Fruit | | | | -- |
| 6 | ACETOPHENONE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | 3-METHYLPENTADECANE | Fruit | | | | -- |
| 43 | PROTOCATECHUIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | ANISIC-ACID-METHYL-ESTER | Fruit | | | | -- |
| 0 | N-TRICOSANE | Fruit | | | | -- |
| 1 | GAMMA-HEXALACTONE | Fruit | | | | -- |
| 0 | DOCOS-1-ENE | Fruit | | | | -- |
| 0 | TETRADEC-1-ENE | Fruit | | | | -- |
| 1 | N-NONACOSANE | Fruit | | | | -- |
| 0 | 5-ETHYLPENTACOSANE | Fruit | | | | -- |
| 5 | OCTANOIC-ACID | Fruit | | | | -- |
| 0 | DECAN-1-OL | Fruit | | | | -- |
| 0 | GLUCOVANILLIC-ACID | Fruit | | | | -- |
| 0 | METHYL-VANILLATE | Fruit | | | | -- |
| 0 | 3-METHYLNONADECANE | Fruit | | | | -- |
| 1 | PROTOCATECHUALDEHYDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------|------------|---------|----------|--------|--|
| 0 | 4-HYDROXY-BENZOIC-ACID | Fruit | | | | -- |
| 0 | N-TRIACONTANE | Fruit | | | | -- |
| 2 | DIACETYL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 61 | FERULIC-ACID | Root | | | | -- |
| 0 | SALICYLIC-ACID-METHYL-ESTER | Fruit | | | | -- |
| 0 | N-HEXATRIACONTANE | Fruit | | | | -- |
| 9 | BENZYL-ALCOHOL | Fruit | | | | -- |
| 0 | 5-ETHYLOCTADECANE | Fruit | | | | -- |
| 3 | VANILLYL-ALCOHOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DECA-2-4-DIEN-1-AL | Fruit | | | | -- |
| 60 | LIMONENE | Fruit | | | | -- |
| 6 | ACETALDEHYDE | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | 3-METHYLHEXACOSANE | Fruit | | | | -- |
| 0 | VITISPIRANE | Fruit | | | | -- |
| 3 | 4-HYDROXYBENZALDEHYDE | Fruit | | | | -- |
| 0 | N-TETRATRIACONTANE | Fruit | | | | -- |
| 2 | CREOSOL | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 2 | ETHYL-VANILLIN | Fruit | | | | -- |
| 34 | SALICYLIC-ACID | Fruit | | | | -- |
| 0 | N-HEXADECANE | Fruit | | | | -- |
| 0 | 5-ETHYLNONACOSANE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|--------|--|
| 1 | NAPHTHALENE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | VANILLIN-BETA-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | CRESOL | Fruit | | | | -- |
| 2 | GAMMA-NONALACTONE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | HEXAN-1-OL | Fruit | | | | -- |
| 0 | 1-OCTEN-3-OL | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 3-METHYLHEPTADECANE | Fruit | | | | -- |
| 2 | PIPERONAL | Plant | | | | -- |
| 0 | 4-HYDROXY-3-METHOXY-BENZYL-ALCOHOL | Shoot | | | | -- |
| 0 | N-TETRADECANE | Fruit | | | | -- |
| 23 | CITRIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | ETHYL-VANILLATE | Fruit | | | | -- |
| 2 | PIPERONAL | Fruit | | | | -- |
| 2 | N-HEXACOSANE | Fruit | | | | -- |
| 24 | BENZALDEHYDE | Fruit | | | | -- |
| 0 | 5-ETHYLHEXADECANE | Fruit | | | | -- |
| 0 | N-CAPRYLIC-ACIDESTER | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |