

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	1,3-BUTANEDIOL	Fruit		47.0		--
0	1-(4-HYDROXY-3-METHOXYPHENYL)-2-PROPANONE	Fruit		31.0		--
0	1-HEXADECANOL	Fruit		38.0		--
0	1-OCTEN-3-OL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	1-TETRADECANOL	Fruit		13.0		--
0	10-METHYLEICOSANE	Fruit		25.0		--
0	2,4,6-HEPTANETRIONE	Fruit		57.0		--
0	2,4,6-TRIMETHYLACETOPHENONE	Fruit		69.0		--
0	2,4-DECADIENAL	Fruit		25.0		--
0	2-FURANCARBOXYLIC-ACID-METHYL-ESTER	Fruit		14.0		--
0	2-HYDROXY-5-METHYL-ACETOPHENONE	Fruit		24.0		--
0	2-METHOXY-PHENOL	Fruit		19.0		--
0	2-METHYL-3,5-DIHYDROXY-(4H)-PYRAN-4-ONE	Fruit		12.0		--
0	2-OCTEN-4-OL	Fruit		25.0		--
0	2-PENTANOL	Fruit		95.0		--
0	2-PHENYLETHYL-ALCOHOL	Fruit				--
0	3-METHYL-BUTANAL	Fruit		27.0		--
0	3-METHYL-CYCLO-PENTANONE	Fruit		25.0		--
0	3-METHYLDOCOSANE	Fruit				--
0	3-METHYLEICOSANE	Fruit				--
0	3-METHYLHENTRIACONTANE	Fruit				--
0	3-METHYLHEPTADECANE	Fruit				--
0	3-METHYLHEXACOSANE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	3-METHYLNONADECANE	Fruit				--
0	3-METHYLPENTADECANE	Fruit				--
0	3-METHYLTETRACOSANE	Fruit				--
0	3-METHYLTRITRIACONTANE	Fruit				--
0	3-PHENYL-PROPAN-1-OL	Fruit				--
0	4,4-DIMETHYL-3-HYDROXY-DIHYDRO-2-(3H)-FURANONE	Fruit		51.0		--
0	4-(4-HYDROXYPHENYL)-2-BUTANONE	Fruit		46.0		--
0	4-(BETA-D-GLUCOSYL)-BENZYL-2-ISOPROPYLTARTRATE	Fruit				--
0	4-HYDROXY-3-METHOXY-ACETOPHENONE	Fruit		37.0		--
0	4-HYDROXY-3-METHOXY-BENZYL-ALCOHOL	Shoot				--
0	4-HYDROXY-BENZOIC-ACID	Fruit				--
0	4-HYDROXY-METHYL-PHENYL-BETA-D-GLUCOSIDE	Fruit				--
3	4-HYDROXYBENZALDEHYDE	Fruit				--
0	5-(HYDROXYMETHYL)-2-FURANCARBOXALDEHYDE	Fruit		460.0		--
0	5-ETHYLHENTRIACONTANE	Fruit				--
0	5-ETHYLHEPTACOSANE	Fruit				--
0	5-ETHYLHEXADECANE	Fruit				--
0	5-ETHYLNONACOSANE	Fruit				--
0	5-ETHYLOCTADECANE	Fruit				--
0	5-ETHYLPENTACOSANE	Fruit				--
0	5-ETHYLTETRADECANE	Fruit				--
0	5-ETHYLTRITRIACONTANE	Fruit				--
0	5-METHY-TETRAHYDRO-2-FURANMETHANOL	Fruit		17.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-METHYL-2-FURANCARBOXALDEHYDE	Fruit		24.0		--
0	5-METHYL-FURFURAL	Fruit				--
0	5-METHYL-TETRAHYDRO-2-FURANMETHANOL	Fruit		17.0		--
0	6,10,14-TRIMETHYL-2-PENTADECANONE	Fruit		23.0		--
0	6-METHYL-3,5-DIHYDROXY-2,3-DIHYDRO-(4H)-PYRAN-4-ONE	Fruit		114.0		--
0	7-NONALACTONE	Fruit				--
6	ACETALDEHYDE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
16	ACETIC-ACID	Fruit		151.0	-0.5995643718999257	--
6	ACETOPHENONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	ANISALDEHYDE	Fruit				--
6	ANISIC-ACID	Fruit		49.0		--
0	ANISIC-ACID-METHYL-ESTER	Fruit				--
0	ANISIC-ALCOHOL	Fruit				--
2	ANISYL-ALCOHOL	Fruit		9.0	-1.0	--
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.
1	ANISYLACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
24	BENZALDEHYDE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	BENZOIC-ACID	Fruit		38.0	-0.6086964338676627	--
0	BENZOIC-ACID-METHYL-ESTER	Fruit				--
0	BENZOTHAZOLE	Fruit				--
9	BENZYL-ALCOHOL	Fruit				--
0	BIS-(4-(BETA-D-GLUCOSYL)-BENZYL)-2-(1-METHYL-PROPYL)-TARTRATE	Fruit				--
28	CALCIUM	Fruit		19000.0	3.494569000908142	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	CALCIUM-OXALATE	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
1	CAPROIC-ACID	Fruit				--
0	CARBOHYDRATE	Fruit	305000.0	628000.0	-0.952181616641961	--
0	CARBOHYDRATES	Fruit	305000.0	628000.0	-0.8282319256478781	--
43	CATECHIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	CATECHOL	Fruit		29.0		--
60	CINNAMALDEHYDE	Fruit				--
1	CINNAMIC-ACID-ETHYL-ESTER	Plant				--
3	CINNAMIC-ALCOHOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	CINNAMYL-ALCOHOL	Fruit				--
0	CIS-CINNAMIC-ACID-METHYL-ESTER	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-METHYL-CINNAMATE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-VITISPIRANE	Fruit Essent. Oil		0.5		--
23	CITRIC-ACID	Fruit				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		--
2	CREOSOL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	CRESOL	Fruit				--
0	DECA-2-4-DIEN-1-AL	Fruit				--
0	DECAN-1-OL	Fruit				--
2	DIACETYL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DIHYDROACTINIDIOLIDE	Fruit				--
0	DOCOS-1-ENE	Fruit				--
0	DOCOSANE	Fruit		22.0		--
0	DOTRIACONT-1-ENE	Fruit				--
0	EICOS-1-ENE	Fruit				--
0	EICOSANE	Fruit		39.0		--
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.
1	ETHYL-PALMITATE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	ETHYL-VANILLATE	Fruit				--
2	ETHYL-VANILLIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
76	EUGENOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	FAT	Fruit	47000.0	212000.0	0.9779868575999203	--
61	FERULIC-ACID	Root				--
15	FIBER	Fruit	153000.0	263000.0	1.1448679867489784	--
13	FORMIC-ACID	Fruit		62.0	-1.0	--
8	FRUCTOSE	Fruit		7500.0	-0.8217893887586457	--
6	FURFURAL	Fruit		54.0	-0.705230402031923	--
0	FURFUROL	Fruit		15.0	-1.0	--
1	GAMMA-HEXALACTONE	Fruit				--
2	GAMMA-NONALACTONE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	GAMMA-OCTALACTONE	Fruit				--
2	GAMMA-UNDECALACTONE	Fruit				--
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.
0	GLUCOVANILLIC-ACID	Fruit				--
0	GLUCOVANILLIN	Fruit				--
0	GLUCOVANILLYL-ALCOHOL	Fruit				--
18	GUAIACOL	Fruit		19.0		--
0	HENEICOSANE	Fruit		23.0		--
0	HENTRIACONT-1-ENE	Fruit				--
0	HEPTACOS-1-ENE	Fruit				--
1	HEPTADECANOIC-ACID	Fruit		30.0		--
0	HEPTANOIC-ACID	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEXACOSANE	Fruit		24.0		--
0	HEXADEC-1-ENE	Fruit				--
0	HEXADECAN-2-ONE	Fruit				--
0	HEXAN-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.
60	LIMONENE	Fruit				--
27	LINOLEIC-ACID	Fruit		135.0	-0.35349522483459317	--
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	METHYL-ACETATE	Fruit		84.0		--
2	METHYL-ANISATE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	METHYL-LINOLEATE	Fruit		21.0		--
0	METHYL-PALMITATE	Fruit		13.0	1.0000000000000002	--
0	METHYL-VANILLATE	Fruit				--
6	MYRISTIC-ACID	Fruit		12.0	-0.268577588356776	--
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.
0	N-DOCOSANE	Fruit				--
0	N-DOTRIACONTANE	Fruit				--
0	N-EICOSANE	Fruit				--
0	N-HENEICOSANE	Fruit				--
3	N-HENTRIACONTANE	Fruit				--
0	N-HEPTACOSANE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-HEPTADECANE	Fruit				--
2	N-HEXACOSANE	Fruit				--
0	N-HEXADECANE	Fruit				--
0	N-HEXATRIACONTANE	Fruit				--
1	N-NONACOSANE	Fruit				--
0	N-NONADECANE	Fruit				--
0	N-OCTACOSANE	Fruit				--
0	N-OCTADECANE	Fruit				--
0	N-PENTACOSANE	Fruit				--
0	N-PENTADECANE	Fruit				--
0	N-PENTATRIACONTANE	Fruit				--
0	N-TETRACOSANE	Fruit				--
0	N-TETRADECANE	Fruit				--
0	N-TETRATRIACONTANE	Fruit				--
0	N-TRIACONTANE	Fruit				--
0	N-TRICOSANE	Fruit				--
0	N-TRITRIACONTANE	Fruit				--
1	NAPHTHALENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NONACOS-1-ENE	Fruit				--
0	NONANAL	Fruit		53.0	1.8294072056713282	--
2	NONANOIC-ACID	Fruit		31.0	1.4136549609901534	--
4	O-COUMARIC-ACID	Fruit				--
0	OCT-1-EN-3-OL	Fruit				--
1	OCTADEC-1-ENE	Fruit				--
0	OCTAN-1-OL	Fruit				--
5	OCTANOIC-ACID	Fruit				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Fruit		13.0	-0.480644966010065	--
9	OXALIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	P-CRESOL	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	P-ETHYL-GUAIACOL	Fruit		33.0		--
13	P-HYDROXY-BENZOIC-ACID	Fruit		28.0	-0.7998243325890123	--
0	P-HYDROXY-BENZYL-ETHYL-ETHER	Fruit				--
4	P-HYDROXYBENZALDEHYDE	Fruit		1040.0		--
1	P-HYDROXYBENZYL-ALCOHOL	Fruit		29.0		--
0	P-HYDROXYBENZYL METHYL ETHER	Fruit	17.0	143.0		--
0	P-HYDROXYMETHYL-BENZOATE	Fruit		36.0		--
0	P-HYDROXYBENZYL-METHYL-ETHER	Fruit				--
0	P-METHOXYBENZOIC-ACID	Fruit		49.0		--
0	P-VINYL-GUAIACOL	Fruit				--
13	PALMITIC-ACID	Fruit		258.0	-0.36151909573594015	--
0	PENTACOS-1-ENE	Fruit				--
0	PENTACOSENE	Fruit		39.0		--
1	PENTADECANOIC-ACID	Fruit		24.0		--
26	PHENOL	Fruit		28.0	0.9999999999999999	--
2	PHENYL-ACETALDEHYDE	Fruit				--
4	PHOSPHORUS	Fruit		700.0	-0.7642076833184737	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	PIPERONAL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PIPERONAL	Fruit				--
0	PROTEIN	Fruit	26000.0	100000.0	-0.12733205905952616	--
1	PROTocatechualdehyde	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	RESIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	SALICYLATES	Essential Oil	10.0	15.0		--
34	SALICYLIC-ACID	Fruit				--
0	SALICYLIC-ACID-METHYL-ESTER	Fruit				--
8	STEARIC-ACID	Fruit		39.0	-0.2766350459688796	--
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	SUGARS	Fruit	71000.0	350000.0	0.5605086704894576	--
4	SYRINGALDEHYDE	Fruit		10.0		--
6	SYRINGIC-ACID	Fruit	0.0	3000.0		--
35	TANNIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	TETRACOSANE	Fruit		13.0		--
0	TETRADEC-1-ENE	Fruit				--
0	TRANS-CINNAMIC-ACID-METHYL-ESTER	Fruit				--
0	TRANS-METHYL-CINNAMATE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-VITISPIRANE	Fruit Essent. Oil		0.5		--
0	TRICOS-1-ENE	Fruit				--
0	TRICOSANE	Fruit		29.0		--
0	TRICOSENE	Fruit		38.0		--
0	TRITRIACONT-1-ENE	Fruit				--
22	UMBELLIFERONE	Fruit				--
24	VANILLIC-ACID	Fruit				--
28	VANILLIN	Fruit	13000.0	30000.0	0.9999999999999999	--
28	VANILLIN	Seed				--
28	VANILLIN	Root				--
28	VANILLIN	Shoot				--
0	VANILLIN-2,3-BUTYLENEGLYCOL-ACETATE	Fruit		10.0		--
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.
0	VANILLYL-ACETATE	Fruit		27.0		--
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	VANILLYL-ETHYL-ETHER	Fruit		3.0		--
0	VANILLYL-METHYL-ETHER	Fruit		13.0		--
0	VITISPIRANE	Fruit				--
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.
13	ZINGERONE	Fruit		46.0		--