

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Vanilla planifolia***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	4-HYDROXYBENZALDEHYDE	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	-0.5995643718999257	
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		
2	ANISYL-ALCOHOL	Fruit	--	9	-1	
1	ANISYLACETATE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	BENZALDEHYDE	Fruit	--	--		
20	BENZOIC-ACID	Fruit	--	38	-0.6086964338676627	
9	BENZYL-ALCOHOL	Fruit	--	--		
28	CALCIUM	Fruit	19000	19000	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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CAPROIC-ACID	Fruit	--	--		
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		
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	--	--		
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		
2	CREOSOL	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	CRESOL	Fruit	--	--		
2	DIACETYL	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	ETHYL-PALMITATE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	ETHYL-VANILLATE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ETHYL-VANILLIN	Fruit	--	--		
76	EUGENOL	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
61	FERULIC-ACID	Root	--	--		
15	FIBER	Fruit	153000	263000	1.1448679867489784	
13	FORMIC-ACID	Fruit	--	62	-1	
8	FRUCTOSE	Fruit	7500	7500	-0.8217893887586457	
6	FURFURAL	Fruit	--	54	-0.705230402031923	
1	GAMMA-HEXALACTONE	Fruit	--	--		
2	GAMMA-NONALACTONE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	GAMMA-UNDECALACTONE	Fruit	--	--		
7	GLUCOSE	Fruit	7500	7500	-0.8155094091619971	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	GUAIACOL	Fruit	--	19		
1	HEPTADECANOIC-ACID	Fruit	--	30		
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	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Fruit	--	135	-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		
2	METHYL-ANISATE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
6	MYRISTIC-ACID	Fruit	--	12	-0.268577588356776	
3	N-HENTRIACONTANE	Fruit	--	--		
2	N-HEXACOSANE	Fruit	--	--		
1	N-NONACOSANE	Fruit	--	--		
1	NAPHTHALENE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	NONANOIC-ACID	Fruit	--	31	1.4136549609901534	
4	O-COUMARIC-ACID	Fruit	--	--		
1	OCTADEC-1-ENE	Fruit	--	--		
5	OCTANOIC-ACID	Fruit	--	--		
18	OLEIC-ACID	Fruit	--	13	-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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
13	P-HYDROXY-BENZOIC-ACID	Fruit	--	28	-0.7998243325890123	
4	P-HYDROXYBENZALDEHYDE	Fruit	--	1040		
1	P-HYDROXYBENZYL-ALCOHOL	Fruit	--	29		
13	PALMITIC-ACID	Fruit	--	258	-0.36151909573594015	
1	PENTADECANOIC-ACID	Fruit	--	24		
26	PHENOL	Fruit	--	28	0.9999999999999999	
2	PHENYL-ACETALDEHYDE	Fruit	--	--		
4	PHOSPHORUS	Fruit	700	700	-0.7642076833184737	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	PIPERONAL	Fruit	--	--		
2	PIPERONAL	Plant	--	--		
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.
7	SALICYLATES	Essential Oil	10	15		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
34	SALICYLIC-ACID	Fruit	--	--		
8	STEARIC-ACID	Fruit	--	39	-0.2766350459688796	
14	SUCROSE	Fruit	350000	350000	1.7347732574703574	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SYRINGALDEHYDE	Fruit	--	10		
6	SYRINGIC-ACID	Fruit	--	3000		
35	TANNIN	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	UMBELLIFERONE	Fruit	--	--		
24	VANILLIC-ACID	Fruit	--	--		
28	VANILLIN	Fruit	13000	30000	0.9999999999999999	
28	VANILLIN	Shoot	--	--		
28	VANILLIN	Root	--	--		
28	VANILLIN	Seed	--	--		
3	VANILLYL-ALCOHOL	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	ZINGERONE	Fruit	--	46		