

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Citrus aurantiifolia

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Fruit		70.0	-0.41945193577446593	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	5-METHOXY-PSORALEN	Fruit				--
1	6,7-DIMETHOXYCOUMARIN	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	ALPHA-LINOLENIC-ACID	Fruit	190.0	1615.0	-0.42109633411209685	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit		20.0	-0.5665622033948856	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Fruit	80.0	240.0	-0.6561241736048067	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Fruit		80.0	-0.0127221438562562	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Fruit	30.0	590.0	0.0769717277948267	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
112	ASCORBIC-ACID	Fruit	291.0	4444.0	-0.008174449784343766	--
2	BERGAMOTTIN	Fruit				--
26	BERGAPTEN	Fruit				--
6	BETA-BISABOLENE	Fruit		90.0	-0.8555004504472944	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	BETA-CAROTENE	Fruit	0.0	2.0	-0.14693466516508752	--
3	BETA-PHELLANDRENE	Fruit		90.0	-0.45703003116030555	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Fruit	90.0	1190.0	-0.2597183887550868	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

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3	BETA-TERPINEOL	Fruit		70.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Fruit		60.0	-0.7063054263490658	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	CALCIUM	Fruit	90.0	3084.0	-0.17821309971085345	--
9	CAMPHENE	Fruit	50.0	80.0	-0.3186300658171268	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Fruit	30.0	250.0	-0.3885919789508993	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	CITRAL	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
23	CITRIC-ACID	Fruit		800.0	-0.6385696610504172	--
20	CITRONELLAL	Fruit		140.0	0.8579977788182253	--
12	COPPER	Fruit	1.0	6.0	-0.5307153602504487	USDA's Ag Handbook 8 and sequelae)
2	DECANOL	Fruit		6.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	DECYL-ACETATE	Fruit		10.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	DODECANAL	Fruit		1.0	-1.3678940092779692	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	FIBER	Fruit	3000.0	67000.0	-0.7046822298607128	--
6	FURFURAL	Fruit	0.0	1.0	-0.7089815020862192	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Fruit	60.0	2170.0	-0.25199677041945456	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
13	GERANIAL	Fruit	10.0	680.0	0.9705306013879492	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	GERANYL-ACETATE	Fruit	30.0	310.0	-0.4216405420735619	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
25	IMPERATORIN	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	IRON	Fruit	0.0	67.0	-0.26171724059735857	--
8	ISOIMPERATORIN	Fruit				--
15	ISOPIMPINELLIN	Fruit				--
60	LIMONENE	Fruit	4700.0	7500.0	0.3254224854124864	--
53	LINALOOL	Fruit	9.0	20.0	-0.5801815825068863	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
27	LINOLEIC-ACID	Fruit	360.0	3060.0	-0.31222791202233824	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Fruit	140.0	1190.0	-0.7574189341525978	USDA's Ag Handbook 8 and sequelae)
15	MALIC-ACID	Fruit		2000.0	-0.8215787018847368	--
1	MALONIC-ACID	Fruit				--
15	METHIONINE	Fruit	20.0	170.0	-0.9710077785150063	USDA's Ag Handbook 8 and sequelae)
22	MYRCENE	Fruit	70.0	1030.0	-0.22373470605849002	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
6	MYRISTIC-ACID	Fruit	10.0	85.0	-0.26513375553502133	USDA's Ag Handbook 8 and sequelae)
4	NERAL	Fruit	40.0	460.0	1.5487945633363407	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	NERYL-ACETATE	Fruit	1.0	310.0	1.7013381797018676	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

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2	NERYL-FORMATE	Fruit		20.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Fruit	1.0	29.0	-0.4237487633855353	--
3	NOOTKATONE	Fruit		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	OCTANOIC-ACID	Fruit		2.0	-0.5716518444101517	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
18	OLEIC-ACID	Plant	160.0	1360.0	-0.6725782785123336	--
9	OXALIC-ACID	Fruit				--
2	OXYPEUCEDANIN-HYDRATE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
16	P-CYMENE	Fruit	50.0	1160.0	-0.4262066202868709	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	PALMITIC-ACID	Fruit	10.0	85.0	-0.36421233986648255	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	30.0	255.0	-0.2988244533847072	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	2.0	18.0	-0.006662132557618176	USDA's Ag Handbook 8 and sequelae)
11	PERILLALDEHYDE	Fruit				--
2	PHELLOPTERIN	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	PHOSPHORUS	Fruit	110.0	2000.0	-0.3693459584082821	--
14	POTASSIUM	Fruit	820.0	9533.0	-0.7417192681764139	--
1	QUINIC-ACID	Fruit				--
15	RIBOFLAVIN	Fruit	0.0	2.0	-0.6444915447424321	--
5	SABINENE	Fruit		160.0	-0.4853487568252894	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
1	SODIUM	Fruit	10.0	222.0	-0.16289877578023426	--
8	STEARIC-ACID	Fruit	10.0	85.0	-0.2735844169584349	--
7	SUCCINIC-ACID	Fruit				--
23	TERPINEN-4-OL	Fruit		166.0	-0.33320430132175255	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Fruit	60.0	120.0	0.047285066012756526	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Fruit	0.0	3.0	-0.29859918253223444	--
29	TRYPTOPHAN	Fruit	30.0	255.0	-0.8356780113999882	USDA's Ag Handbook 8 and sequelae)
1	XANTHYLETIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
77	ZINC	Fruit	1.0	9.0	-0.6408757503171868	USDA's Ag Handbook 8 and sequelae)