

P Citrus aurantiifolia

Common Name(s)

Lime

How Used

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Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	1,4-CINEOLE	Fruit 180	180	-0.9430816794645105	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Fruit 70	70	-0.41945193577446593	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2,2-DIMETHYL-5(-1)-METHYL-1-PROPENYL)TETRA-HYDROFURAN	Plant 30	30		
0	2,6,6-TRIMETHYL-2-VINYL-TETRAHYDROPYRAN	Fruit 16	16		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	5-GERANOXY-7-METHOXYCOUMARIN	Fruit --	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
10	5-METHOXY-PSORALEN	Fruit --	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
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.
0	8-GERAN-OXYPORALEN	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA,ALPHA-P-TRIMETHYLBENZYL-ALCOHOL	Fruit	--	60		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-ALPHA-P-TRIMETHYL-BENZYL	Plant	--	--		
0	ALPHA-ALPHA-P-TRIMETHYL-BENZYL-ALCOHOL-ETHER	Fruit	60	20		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-BERGAMOTENE	Fruit	50	250	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-BISABOLENE	Fruit	250	400		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	ALPHA-LINOLENIC-ACID	Fruit	190	1615	-0.42109633411209685	USDA's Ag Handbook 8 and sequelae)
0	ALPHA-P-DIMETHYL-STYRENE	Fruit	50	50	1.2787240261820119	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
11	ALPHA-PHELLANDRENE	Fruit 20	20	-0.5665622033948856	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Fruit 80	240	-0.6561241736048067	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Fruit 80	80	-0.0127221438562562	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Fruit 30	590	0.0769717277948267	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-THUJENE	Fruit 40	40	-0.5594757607508909	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
112	ASCORBIC-ACID	Fruit 291	4444	-0.008174449784343766	
0	ASH	Fruit 2000	3800	-1.3689254367339239	
2	BERGAMOTTIN	Fruit --	--		
26	BERGAPTEN	Fruit --	--		
6	BETA-BISABOLENE	Fruit 90	90	-0.8555004504472944	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	BETA-CAROTENE	Fruit --	2	-0.14693466516508752	
3	BETA-PHELLANDRENE	Fruit 90	90	-0.45703003116030555	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	BETA-PINENE	Fruit 90	1190	-0.2597183887550868	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
3	BETA-TERPINEOL	Fruit 70	70	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
35	BORNEOL	Fruit 60	60	-0.7063054263490658	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
28	CALCIUM	Fruit 90	3084	-0.17821309971085345		
9	CAMPHENE	Fruit 50	80	-0.3186300658171268	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
0	CARBOHYDRATES	Fruit 59000	895900	0.6043670496771566		
31	CARYOPHYLLENE	Fruit 30	250	-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	800	-0.6385696610504172		
20	CITRONELLAL	Fruit 140	140	0.8579977788182253		
12	COPPER	Fruit 1	6	-0.5307153602504487	USDA's Ag Handbook 8 and sequelae)	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	DECANAL	Fruit 9	10	-0.798910393394575		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	DECANOL	Fruit 6	6	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	DECYL-ACETATE	Fruit 10	10	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DIMETHOXYCOUMARIN	Fruit --	--			
2	DODECANAL	Fruit 1	1	-1.3678940092779692		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Pt --	3100	-1		
0	EO	Plant 3000	10000	0.019853678703787233		
0	FAT	Fruit 2000	26700	-0.4373196374673332		
0	FENCHOL	Fruit 120	120			Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	FIBER	Fruit 3000	67000	-0.7046822298607128		
0	FOLUENE	Plant --	--			
6	FURFURAL	Fruit --	1	-0.7089815020862192		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-SELINENE	Fruit 20	20	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Fruit 60	2170	-0.25199677041945456	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	GERANIAL	Fruit 10	680	0.9705306013879492	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	GERANYL-ACETATE	Fruit 30	310	-0.4216405420735619	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	GERMACRENE-B	Fruit --	3500	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
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 --	67	-0.26171724059735857	
8	ISOIMPERATORIN	Fruit --	--		
15	ISOPIMPINELLIN	Fruit --	--		
0	LIMETTIN	Fruit --	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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60	LIMONENE	Fruit 4700	7500	0.3254224854124864		
0	LINALOL	Fruit 9	20	-0.636217155719963		
53	LINALOOL	Fruit 9	20	-0.5801815825068863	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
27	LINOLEIC-ACID	Fruit 360	3060	-0.31222791202233824	USDA's Ag Handbook 8 and sequelae)	
4	LYSINE	Fruit 140	1190	-0.7574189341525978	USDA's Ag Handbook 8 and sequelae)	
15	MALIC-ACID	Fruit 2000	2000	-0.8215787018847368		
1	MALONIC-ACID	Fruit --	--			
15	METHIONINE	Fruit 20	170	-0.9710077785150063	USDA's Ag Handbook 8 and sequelae)	
0	METHYL-HEPTENONE	Fruit 1	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
22	MYRCENE	Fruit 70	1030	-0.22373470605849002	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
6	MYRISTIC-ACID	Fruit 10	85	-0.26513375553502133	USDA's Ag Handbook 8 and sequelae)	
4	NERAL	Fruit 40	460	1.5487945633363407	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	NERYL-ACETATE	Fruit 1	310	1.7013381797018676	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
2	NERYL-FORMATE	Fruit 20	20	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
39	NIACIN	Fruit 1	29	-0.4237487633855353		
0	NONANAL	Fruit 20	20	0.043299578832457684	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
0	NONANE	Fruit 6	6		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
0	NONANOL	Fruit 1	10		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
3	NOOTKATONE	Fruit 1	1		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
0	OCTANAL	Fruit 30	80	1.4102204808154215	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
5	OCTANOIC-ACID	Fruit 2	2	-0.5716518444101517	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
0	OCTANOL	Fruit 1	1	1.4142135623730945	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	

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18	OLEIC-ACID	Plant	160	1360	-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	1160	-0.4262066202868709 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	PALMITIC-ACID	Fruit	10	85	-0.36421233986648255 USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	30	255	-0.2988244533847072 USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	2	18	-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.
0	PHLOBOTANNIN	Fruit	--	--	
4	PHOSPHORUS	Fruit	110	2000	-0.3693459584082821
0	POLYHYDROXYPHLOBAN	Fruit	--	--	
14	POTASSIUM	Fruit	820	9533	-0.7417192681764139

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0	PROTEIN	Fruit 4000	65000	-0.5965222785125606		
1	QUINIC-ACID	Fruit --	--			
15	RIBOFLAVIN	Fruit --	2	-0.6444915447424321		
5	SABINENE	Fruit 160	160	-0.4853487568252894	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
1	SODIUM	Fruit 10	222	-0.16289877578023426		
8	STEARIC-ACID	Fruit 10	85	-0.2735844169584349		
7	SUCCINIC-ACID	Fruit --	--			
0	SUGARS	Fruit --	17400	-0.8123734149384401		
0	TERPINEN-1-OL	Fruit 70	70		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
23	TERPINEN-4-OL	Fruit 166	166	-0.33320430132175255	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
9	TERPINOLENE	Fruit 60	120	0.047285066012756526	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	
31	THIAMIN	Fruit --	3	-0.29859918253223444		
0	THYMYL-METHYL-ETHER	Fruit 2	2	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	TRIDECANE	Fruit 2	2			Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
29	TRYPTOPHAN	Fruit 30	255	-0.8356780113999882		USDA's Ag Handbook 8 and sequelae)
0	UNDECANE	Fruit 3	3			Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	WATER	Fruit 877000	911000	0.6105778416650238		
0	XANTHOPHYLLS	Fruit 11	19	-1		
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	9	-0.6408757503171868		USDA's Ag Handbook 8 and sequelae)