

P Coriandrum sativum

Common Name(s)

Chinese Parsley, Cilantro, Coriander

How Used

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Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-LINALOOL	Essential Oil	--	--	
0	(-)-4(R)-BETA-HYDROXY-PHENETHYL-FERULIC-ACID	Plant	--	3	
3	(-)-BORNEOL	Essential Oil	--	--	
0	(R)-LINALOOL	Essential Oil	--	--	
0	(S)-(+)-LINALOOL	Essential Oil	--	--	
67	1,8-CINEOLE	Fruit	--	--	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
67	1,8-CINEOLE	Seed Essent. Oil	--	13780	-1	
0	1-(4-HYDROXY-PHENYL)-ETHANE-1,2-DIOL	Plant	--	4		
0	2-(4-HYDROXY-PHENYL)-2-METHOXY-ETHANOL	Plant	--	12		
0	2-(4-HYDROXY-PHENYL)-ETHANOL	Plant	--	0.2		
0	2-DODECANAL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-DODECANAL	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	3',4'-DIMETHOXYQUERCETIN	Leaf	--	--		
0	3'-METHOXY-QUERCETIN	Leaf	--	--		
0	3,6-UNDECADIENAL	Leaf	342	342		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	3-O-METHYLKAEMPFEROL	Fruit	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	3-OCTENAL	Leaf	97	97	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	4-HYDROXY-BENZOIC-ACID	Plant	--	0.9	
0	5,8-TRIDECADIENAL	Leaf	561	561	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	5-DECENAL	Leaf	101	101	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	5-METHOXY-PSORALEN	Fruit	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	6-UNDECENAL	Leaf	130	130		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	7-DODECENAL	Leaf	2131	2131		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	8-METHYNON-5-ENAL	Leaf	96	96		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	9-TETRADECENAL	Leaf	924	924		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ABSCISIC-ACID	Fruit	--	0.03	-1	
16	ACETIC-ACID	Fruit	1	1	-0.6428126249807119	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	ACETIC-ACID-ESTER	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
19	ACETYL-CHOLINE	Seed	--	43	-0.7564731555082913	
3	ALANINE	Fruit	--	--		
11	ALPHA-PHELLANDRENE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Essential Oil	--	--		
28	ALPHA-PINENE	Fruit	819	13780	2.8789050860769403	
28	ALPHA-PINENE	Seed Essent. Oil	11400	52980	-0.3763795265608634	
28	ALPHA-PINENE	Essential Oil	--	--		
13	ALPHA-TERPINENE	Fruit	1	15	-0.37657545814518684	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	ALPHA-TERPINENE	Seed Essent. Oil	200	19700	0.21421162836665333	
13	ALPHA-TERPINENE	Essential Oil	--	--		
23	ALPHA-TERPINEOL	Fruit	36	44	-0.3723049247176171	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Seed Essent. Oil	--	23200	-0.591786991122015	
23	ALPHA-TERPINEOL	Essential Oil	--	--		
0	ALPHA-THUJENE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-THUJENE	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
17	ANGELICIN	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
17	ANGELICIN	Seed	--	--		
101	APIGENIN	Fruit	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
14	ARGININE	Leaf	--	--		
14	ARGININE	Fruit	--	--		
112	ASCORBIC-ACID	Leaf	780	6290	0.13971175200302013	
112	ASCORBIC-ACID	Fruit	--	920	-0.22728617216267144	
0	ASH	Leaf	19000	153000	0.6016512590064101	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ASH	Seed	6000	6600	-1.2416079828374493	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ASPARTIC-ACID	Fruit	--	--		
0	BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE	Fruit	--	8		
26	BERGAPTEN	Fruit	--	--		
53	BETA-CAROTENE	Leaf	29	228	-0.14501134388228565	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	BETA-CAROTENE	Seed	--	--	-0.42930857989782434	
0	BETA-CARYOPHYLLENE	Seed Essent. Oil	1600	55470	1	
3	BETA-PHELLANDRENE	Fruit	1	13	-0.4703263293427	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	BETA-PHELLANDRENE	Essential Oil	--	--		

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
3	BETA-PHELLANDRENE	Seed Essent. Oil	400	18600	-0.3304275521980012	
13	BETA-PINENE	Fruit	69	83	-0.2951842276648527	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Essential Oil	--	--		
13	BETA-PINENE	Seed Essent. Oil	2100	13400	-0.7558724890143567	
47	BETA-SITOSTEROL	Fruit	--	220	-0.5051872230351605	
47	BETA-SITOSTEROL	Seed	--	--		
0	BETA-SITOSTEROL-D-GLYCOSIDE	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	BICYCLOGERMACRENE	Seed Essent. Oil	--	400		
35	BORNEOL	Fruit	2	54	-0.7079078334166587	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
35	BORNEOL	Seed Essent. Oil	15500	70100		
35	BORNEOL	Essential Oil	--	--		
12	BORNYL-ACETATE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	BORON	Seed	9	29	0.23188918012153775	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
102	CAFFEIC-ACID	Fruit	--	770	-0.1963560462638582	
102	CAFFEIC-ACID	Leaf	--	--		
102	CAFFEIC-ACID	Shoot	--	--		
28	CALCIUM	Leaf	1330	13441	-0.34137725941345665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Seed	6465	14469	1.8958241168450043	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	CAMPESTEROL	Fruit	--	30	-0.4046460894399287	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
9	CAMPHENE	Fruit	2	155	-0.2875286008211722	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	CAMPHENE	Essential Oil	--	--		
9	CAMPHENE	Seed Essent. Oil	2100	7600	1.2973683379921246	
41	CAMPHOR	Fruit	100	1300	1.6456434313757062	
41	CAMPHOR	Seed Essent. Oil	--	58300	1	
41	CAMPHOR	Essential Oil	--	--		
0	CAPRINALDEHYDE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAR-3-ENE	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CARBOHYDRATES	Fruit	549900	603240	-0.9606363699519014	USDA's Ag Handbook 8 and sequelae)
0	CARBOHYDRATES	Leaf	73000	589000	-0.18171460401226272	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
19	CARVONE	Fruit	21	26	-0.4990970041084822	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Fruit	1	8	-0.39580267370453653	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Essential Oil	--	--		
8	CARYOPHYLLENE-OXIDE	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
8	CARYOPHYLLENE-OXIDE	Seed Essent. Oil	--	3610		
77	CHLOROGENIC-ACID	Plant	305	320	-0.6800911873139804	Abstract (See species file)
77	CHLOROGENIC-ACID	Shoot	--	--		
20	CHOLINE	Seed	--	1387	-0.26859216208459646	
24	CHROMIUM	Seed	28.8	28.8	3.513354178720076	
18	CINNAMIC-ACID	Plant	40	40	1	Abstract (See species file)
0	CIS-FERULIC-ACID	Fruit	1360	1360		Abstract (See species file)
0	CIS-FERULIC-ACID	Plant	467	467		Abstract (See species file)
0	CIS-LINALOOL-OXIDE	Seed Essent. Oil	--	1800		
3	CIS-OCIMENE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-P-COUMARIC-ACID	Fruit	1440	1440		Abstract (See species file)
0	CIS-P-COUMARIC-ACID	Plant	273	273		Abstract (See species file)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
15	CITRONELLOL	Fruit	--	8	-0.021396130240373637 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	CITRONELLOL	Seed Essent. Oil	6150	14620	
15	CITRONELLOL	Essential Oil	--	--	
2	COBALT	Fruit	0.9	0.9	-0.42616188431853125
12	COPPER	Fruit	10	13	0.014090749380317144
12	COPPER	Leaf	18	18	-0.2657646170188676 USDA's Ag Handbook 8 and sequelae)
1	CORIANDRIN	Shoot	4.2	106.6	
1	CORIANDRIN	Plant	--	0.5	
0	CORIANDRINOL	Fruit	--	--	
0	CORIANDRINONEDIOL	Seed	--	60	
1	CORIANDROL	Fruit	400	10250	
0	CORIANDRONE-A	Shoot	--	94	
0	CORIANDRONE-A	Plant	--	13	
0	CORIANDRONE-B	Shoot	--	50	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	CORIANDRONE-B	Plant	--	1.3	
0	CORIANDRONE-C	Plant	--	0.12	
0	CORIANDRONE-D	Plant	--	0.09	
0	CORIANDRONE-E	Plant	--	0.6	
2	CYSTINE	Fruit	--	--	
0	D-DECYLALDEHYDE	Fruit	--	--	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	D-MANNITOL	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DAPHNETIN-8-O-BETA-D-GLUCOSIDE	Plant	--	0.12	
5	DAUCOSTEROL	Seed	--	--	
0	DEC-TRANS-2-EN-1-AL	Essential Oil	--	--	
1	DECAN-1-AL	Essential Oil	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	DECAN-1-AL	Seed Essent. Oil	--	1500		
0	DECAN-1-OL	Essential Oil	--	--		
0	DECANAL	Fruit	6	80	0.4493870962844483	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DECANAL	Leaf	1005	1005	1.4142130678317626	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DECYL-ALDEHYDE	Seed Essent. Oil	--	70100		
0	DECYL-ALDEHYDE	Fruit	2	27		
0	DECYLIC-ACID-ESTER	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	DELTA-5,6-OCTADECENIC-ACID	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	DELTA-5,6-OCTADECENOIC-ACID	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DELTA-SITOSTEROL	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	DIHYDROCORIANDRIN	Shoot	0.2	113	
0	DIHYDROCORIANDRIN	Plant	--	0.4	
6	DILLAPIOL	Seed Essent. Oil	--	4500	
7	DIPENTENE	Fruit	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
3	DIPHENYLAMINE	Plant	--	--	Karawva, M. S., Khayyal, S. E., Farrag, N. M., Ayad, M. M. 1986. Screening of Diphenylamine as an Antihyperglycemic in Certain Edible Plant Organs. Egypt J. Pharm. Sci., 25(1,2,3): 21-25.
3	DIPHENYLAMINE	Fruit	--	9500	Karawy, M. S., Ehayyal, A. S. E., Farrag, N. M., Ayad, M. M. 1986. Screening of Diphenylamine as an Antihyperglycaemic Agent in Certain Edible Plant Organs. Acta. Pharm. Hung, 56: 55-58.
0	DODEC-TRANS-2-EN-1-AL	Essential Oil	--	--	
0	DODECAN-1-AL	Essential Oil	--	--	
0	DODECAN-1-AL	Seed Essent. Oil	--	2000	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	DODECAN-1-OL	Essential Oil	--	--		
2	DODECANAL	Leaf	1627	1627		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	DODECANOL	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ELEMOL	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
2	ELEMOL	Seed Essent. Oil	--	4130		
0	EO	Fruit	2000	26000	-0.31459959995392905	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	EO	Leaf	10000	10000	-0.13502102138741875	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Seed	--	--		
0	EO	Seed Essent. Oil	100	14900	-1	
0	ESCLETIN-DIMETHYL-ETHER	Plant	--	0.2		
0	ETHYL-LINOLATE	Fruit	13	166		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-MYRISTATE	Fruit	12	153	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-MYRISTATE	Essential Oil	--	--		
1	ETHYL-PALMITATE	Fruit	46	598	1.4140633715418722	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	ETHYL-PENTADECANOATE	Essential Oil	--	--		
0	ETHYL-PENTEDECANOATE	Fruit	--	5		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-STEARATE	Fruit	42	546		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-UNDECANOATE	Essential Oil	--	--		
0	FAT	Fruit	110000	210000	0.9627110184734524	
0	FAT	Leaf	6000	50000	-0.12876910250125184	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
61	FERULIC-ACID	Plant	--	11	-1.3788754333101605	
15	FIBER	Fruit	291000	319000	1.6733109057803188	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
15	FIBER	Leaf	16000	129000	-0.4023315981418849	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	FRUCTOSE	Fruit	--	--		
0	FURFUROL	Fruit	60000	60000	1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-SITOSTEROL	Fruit	--	--		
11	GAMMA-TERPINENE	Fruit	762	2626	-0.16808278013485026	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Essential Oil	--	--		
11	GAMMA-TERPINENE	Seed Essent. Oil	--	40800	-0.2831900813123795	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	GERANIAL	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	GERANIAL	Seed Essent. Oil	--	1300		
35	GERANIOL	Fruit	34	442	2.099882842620517	
35	GERANIOL	Essential Oil	--	--		
35	GERANIOL	Seed Essent. Oil	6720	69700	0.1099647159636269	
0	GERANIOL-ACETATE	Seed Essent. Oil	10850	49600	0.5110243254136062	
0	GERANIOL-ACETATE	Essential Oil	--	--		
5	GERANYL-ACETATE	Fruit	52	988	0.7226725134299015	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	GLUCOSE	Fruit	--	--		
8	GLUTAMIC-ACID	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
12	GLYCINE	Fruit	--	--	
0	HEPTADECANE	Fruit	--	--	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	HISTIDINE	Fruit	--	--	
3	HOMOERIODICTYOL	Fruit	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
6	IRON	Fruit	112	227	0.3729596362352439
6	IRON	Leaf	30	528	0.41776327197286667
3	ISOLEUCINE	Leaf	--	--	
3	ISOLEUCINE	Fruit	--	--	
22	ISOQUERCITRIN	Fruit	--	--	
1	ISOSCOPOLETIN	Plant	--	0.1	
0	KAEMPFEROL-3-O-ALPHA-L-(2,3-DI-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE)	Plant	--	8	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	KAEMPFEROL-3-O-ALPHA-L-(3-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE)	Plant	--	2		
2	LEUCINE	Leaf	--	--		
2	LEUCINE	Fruit	--	--		
60	LIMONENE	Fruit	34	1238	-0.5726537627760642	
60	LIMONENE	Essential Oil	--	--		
60	LIMONENE	Seed Essent. Oil	15500	18950	-0.7918374700341749	
0	LINALOL	Fruit	4060	16900	2.2611501905393587	
0	LINALOL-OXIDE	Fruit	2	21		
53	LINALOOL	Fruit	400	16900	2.2811487887245883	
53	LINALOOL	Essential Oil	--	568000	1.9636483678850598	
53	LINALOOL	Seed Essent. Oil	414190	742300	2.216550400992289	
0	LINALOOL-ACETATE	Seed Essent. Oil	--	207780	1.4141992183349599	
0	LINALOOL-OXIDE	Fruit	2	21		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	LINALOOL-OXIDE	Essential Oil	--	--		
27	LINOLEIC-ACID	Fruit	13030	18260	-0.097777897022873985	
27	LINOLEIC-ACID	Seed	--	132000	0.2131554891088805	
0	LINOLEIC-ACID-ETHYL-ESTER	Essential Oil	--	--		
4	LYSINE	Fruit	--	--		
4	LYSINE	Leaf	--	--		
65	MAGNESIUM	Fruit	2939	4016	0.8734494335760973	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	6940	7488	1.2982818168844166	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Fruit	18	19	-0.27825396850008577	
14	MANGANESE	Leaf	64	64	-0.35348854285141834	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Leaf	--	--		
22	MYRCENE	Fruit	13	169	-0.3581922077232703	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
22	MYRCENE	Seed Essent. Oil	--	6500	-0.6568116875911565	
22	MYRCENE	Essential Oil	--	--		
6	MYRISTIC-ACID	Fruit	200	219	-0.2588121993964581	USDA's Ag Handbook 8 and sequelae)
31	MYRISTICIN	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	MYRISTICIN	Essential Oil	--	--		
5	MYRTENAL	Seed Essent. Oil	--	1600		
0	N-HEPTADECANE	Essential Oil	--	--		
0	N-OCTADECANE	Essential Oil	--	--		
0	N-TETRADECANOIC-ACID	Seed Essent. Oil	--	5700		
0	N-TRIACONTANE	Seed	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	NEOCNIDILIDE	Fruit	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
10	NEROL	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	NEROL	Seed Essent. Oil	--	6150	1	
10	NEROL	Essential Oil	--	--		
0	NEROL-ACETATE	Seed Essent. Oil	--	1900		
11	NEROLIDOL	Fruit	14	17	-0.7181710539929176	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Fruit	21	23	-0.5039583507406544 USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Leaf	13	136	0.468288830503172
3	NICKEL	Fruit	2.4	2.4	-0.04957166517347313
0	NONAN-1-AL	Essential Oil	--	--	
0	NONANAL	Fruit	1	18	-0.06494936824868595 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NONYL-ALDEHYDE	Leaf	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	OCIMENE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTADECA-5,6-DIENOIC-ACID	Seed Oil	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	OCTADECANE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	OCTANOL	Leaf	504	504		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
18	OLEIC-ACID	Fruit	39930	167819	0.8126920882556948	
18	OLEIC-ACID	Seed Oil	--	--		
18	OLEIC-ACID	Seed	--	94000	-0.20636501961421735	
9	OXALIC-ACID	Leaf	50	50	-0.4746637714382876	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
9	OXALIC-ACID	Fruit	--	120	-0.29973195119586477	
25	P-COUMARIC-ACID	Fruit	--	16	-0.700035632491875	
16	P-CYMENE	Fruit	74	728	-0.4833946204797754	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
16	P-CYMENE	Seed Essent. Oil	--	900	-1.547238257753332	
16	P-CYMENE	Essential Oil	--	--		
0	P-CYMOL	Seed Essent. Oil	--	67300		
13	P-HYDROXY-BENZOIC-ACID	Fruit	960	960	1.409967005275492	Abstract (See species file)
13	P-HYDROXY-BENZOIC-ACID	Plant	252	333	-1	Abstract (See species file)
1	P-HYDROXYCINNAMIC-ACID	Plant	--	1.1	-1.0000000000000002	
13	PALMITIC-ACID	Fruit	2160	16800	-0.10399513962361799	
13	PALMITIC-ACID	Seed Essent. Oil	--	58200		
1	PALMITIC-ACID-ETHYL-ESTER	Essential Oil	--	--		
2	PALMITOLEIC-ACID	Fruit	1000	1097	-0.14493129159756157	USDA's Ag Handbook 8 and sequelae)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
24	PECTIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PENTADECANAL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PENTOSANS	Fruit	100000	100000	0.21063680874408397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PETROSELINIC-ACID	Fruit	40700	111300	0.26077456937086446	
0	PETROSELINIC-ACID	Seed	--	718000	0.7588317381879648	
0	PETROSELINIC-ACID	Seed Oil	--	--		
7	PHENYLALANINE	Leaf	--	--		
7	PHENYLALANINE	Fruit	--	--		
4	PHOSPHORUS	Fruit	3907	4687	0.4468028530022447	USDA's Ag Handbook 8 and sequelae)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	PHOSPHORUS	Leaf	720	6452	0.27240108248500583	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	PHYTOSTEROLS	Fruit	--	460	-0.6252997452058894	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	POTASSIUM	Fruit	11866	14781	-0.27740968352885775	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Leaf	5600	48177	0.7874620147860205	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROLINE	Fruit	--	--		
0	PROTEIN	Fruit	110000	170000	0.8110483798465427	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PROTEIN	Leaf	26000	236000	0.240968971540666135	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
43	PROTocatechuic-acid	Fruit	760	760	0.9999999999999999	Abstract (See species file)
43	PROTocatechuic-acid	Plant	167	179	0.8781551128951783	Abstract (See species file)
31	PSORALEN	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
31	PSORALEN	Seed	--	--		
176	QUERCETIN	Fruit	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
176	QUERCETIN	Shoot	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Leaf	--	--	
0	QUERCETIN-3-GLUCURONIDE	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
2	QUERCETIN-3-O-BETA-D-GLUCURONIDE	Fruit	--	--	
0	QUERCETIN-GLYCOSIDE	Fruit	--	--	
0	QUERCETIN-GLYCOSIDE	Seed	--	--	
18	RHAMNETIN	Fruit	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
15	RIBOFLAVIN	Fruit	3	4	-0.21615825716438572 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
15	RIBOFLAVIN	Leaf	1	21	-0.07942432526480918	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
87	RUTIN	Fruit	--	--		
87	RUTIN	Shoot	--	--		
5	SABINENE	Fruit	1	83	-0.509533484990146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Seed Essent. Oil	--	1400	-0.4936167585696178	
5	SABINENE	Essential Oil	--	--		
0	SACCHAROSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	SCOPOLETIN	Fruit	--	--		
44	SCOPOLETIN	Shoot	--	--		
1	SERINE	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	SODIUM	Fruit	308	430	-0.14317436938042027	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Leaf	940	7581	0.6991528552357646	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	STARCH	Fruit	100000	100000	-0.30384740496903184	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Fruit	1100	1207	-0.1991755963123703	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed Essent. Oil	--	2000		
0	STEARIC-ACID-ETHYL-ESTER	Essential Oil	--	--		
12	STIGMASTEROL	Fruit	--	180	1.3242602946608402	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
14	SUCROSE	Fruit	--	--		
0	SUGARS	Fruit	200000	200000	-0.058650417947657976	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
4	SYRINGALDEHYDE	Plant	--	0.1		
35	TANNIN	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
23	TERPINEN-4-OL	Fruit	6	80	-0.34623106760257755	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Seed Essent. Oil	--	13800	-0.5326666411126562	
23	TERPINEN-4-OL	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
9	TERPINOLENE	Fruit	13	26	-0.5876858204442595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Essential Oil	--	--		
9	TERPINOLENE	Seed Essent. Oil	--	5300	-0.303409676929149	
0	TETRADECAN-1-AL	Seed Essent. Oil	--	1800		
0	TETRADECANAL	Leaf	132	132	0.9999999999999998	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Fruit	2	3	-0.29859918253223444	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Leaf	1	16	1.6037378639175852	
4	THREONINE	Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
71	THYMOL	Seed Essent. Oil	--	68140	1.4139493228546411	
1	TOLUENE	Leaf	117	117		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-2-DECANAL	Fruit	1	18		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-2-DODECANAL	Fruit	9	114		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	TRANS-ANETHOLE	Fruit	1	2	-0.9957288082990997	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-BETA-OCIMENE	Seed Essent. Oil	--	900		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	TRANS-CITRAL	Essential Oil	--	--		
0	TRANS-OCIMENE	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-P-COUMARIC-ACID	Fruit	1120	1120		Abstract (See species file)
0	TRANS-P-COUMARIC-ACID	Plant	173	173		Abstract (See species file)
0	TRANS-TRIDEC-2-EN-1-AL	Fruit	--	--		
0	TRANS-TRIDECEN-(2)-AL-(1)	Plant	--	--		
1	TRIACONTAN-1-OL	Seed	--	--		
0	TRIACONTANE	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
3	TRIACONTANOL	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	TRICOSAN-1-OL	Seed	--	--	
0	TRICOSANOL	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	TRIDECANAL	Leaf	168	168	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
29	TRYPTOPHAN	Leaf	--	--	
8	TYROSINE	Fruit	--	--	
22	UMBELLIFERONE	Fruit	--	--	
22	UMBELLIFERONE	Shoot	--	--	
22	UMBELLIFERONE	Plant	--	0.1	
0	UMBELLIPRENIN	Fruit	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	UNDECAN-1-AL	Essential Oil	--	--		
0	UNDECAN-1-AL	Seed Essent. Oil	--	0.2		
2	UNDECANAL	Fruit	1	8	1.4065369194811357	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	UNDECANAL	Leaf	304	304		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	VALINE	Leaf	--	--		
3	VALINE	Fruit	--	--		
24	VANILLIC-ACID	Fruit	960	960	1	Abstract (See species file)
24	VANILLIC-ACID	Plant	221	347	1.4132666574417567	Abstract (See species file)
0	VERATRIC-ACID	Plant	--	0.3		
0	WATER	Fruit	86000	91200	-2.8635489476544933	
0	WATER	Leaf	73000	73000	-3.6650941195552518	USDA's Ag Handbook 8 and sequelae)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
43	XANTHOTOXIN	Fruit	--	--		
77	ZINC	Fruit	34	52	0.6528169783274335	