

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Coriandrum sativum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Fruit	549900.0	603240.0	-0.9606363699519014	USDA's Ag Handbook 8 and sequelae)
53	LINALOOL	Seed Essent. Oil	414190.0	742300.0	2.216550400992289	--
15	FIBER	Fruit	291000.0	319000.0	1.6733109057803188	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Fruit	110000.0	170000.0	0.8110483798465427	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAT	Fruit	110000.0	210000.0	0.9627110184734524	--
0	WATER	Fruit	86000.0	112000.0	-2.8635489476544933	--
0	CARBOHYDRATES	Leaf	73000.0	589000.0	-0.18171460401226272	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PETROSELINIC-ACID	Fruit	40700.0	111300.0	0.26077456937086446	--
18	OLEIC-ACID	Fruit	39930.0	167819.0	0.8126920882556948	--
0	PROTEIN	Leaf	26000.0	236000.0	0.24096897154066135	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Leaf	19000.0	153000.0	0.6016512590064101	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Leaf	16000.0	129000.0	-0.4023315981418849	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
35	BORNEOL	Seed Essent. Oil	15500.0	70100.0		--
60	LIMONENE	Seed Essent. Oil	15500.0	18950.0	-0.7918374700341749	--
27	LINOLEIC-ACID	Fruit	13030.0	18260.0	-0.09777897022873985	--
14	POTASSIUM	Fruit	11866.0	14781.0	-0.27740968352885775	USDA's Ag Handbook 8 and sequelae)
28	ALPHA-PINENE	Seed Essent. Oil	11400.0	52980.0	-0.3763795265608634	--
0	GERANIOL-ACETATE	Seed Essent. Oil	10850.0	49600.0	0.5110243254136062	--
65	MAGNESIUM	Leaf	6940.0	7488.0	1.2982818168844166	USDA's Ag Handbook 8 and sequelae)
35	GERANIOL	Seed Essent. Oil	6720.0	69700.0	0.1099647159636269	--
28	CALCIUM	Seed	6465.0	14469.0	1.8958241168450043	--
15	CITRONELLOL	Seed Essent. Oil	6150.0	14620.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FAT	Leaf	6000.0	50000.0	-0.12876910250125184	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Seed	6000.0	6600.0	-1.2416079828374493	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	POTASSIUM	Leaf	5600.0	48177.0	0.7874620147860205	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	LINALOL	Fruit	4060.0	16900.0	2.2611501905393587	--
4	PHOSPHORUS	Fruit	3907.0	4687.0	0.4468028530022447	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	2939.0	4016.0	0.8734494335760973	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Fruit	2160.0	16800.0	-0.10399513962361799	--
13	BETA-PINENE	Seed Essent. Oil	2100.0	13400.0	-0.7558724890143567	--
9	CAMPHENE	Seed Essent. Oil	2100.0	7600.0	1.2973683379921246	--
0	EO	Fruit	2000.0	26000.0	-0.31459959995392905	--
0	BETA-CARYOPHYLLENE	Seed Essent. Oil	1600.0	55470.0	1.0	--
28	CALCIUM	Leaf	1330.0	13441.0	-0.34137725941345665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Fruit	1100.0	1207.0	-0.1991755963123703	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	1000.0	1097.0	-0.14493129159756157	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Leaf	940.0	7581.0	0.6991528552357646	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	ALPHA-PINENE	Fruit	819.0	13780.0	2.8789050860769403	--
112	ASCORBIC-ACID	Leaf	780.0	6290.0	0.13971175200302013	--
11	GAMMA-TERPINENE	Fruit	762.0	2626.0	-0.16808278013485026	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	PHOSPHORUS	Leaf	720.0	6452.0	0.27240108248500583	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	BETA-PHELLANDRENE	Seed Essent. Oil	400.0	18600.0	-0.3304275521980012	--
53	LINALOOL	Fruit	400.0	10250.0	2.2811487887245883	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CORIANDROL	Fruit	400.0	10250.0		--
1	SODIUM	Fruit	308.0	430.0	-0.14317436938042027	USDA's Ag Handbook 8 and sequelae)
77	CHLOROGENIC-ACID	Plant	305.0	320.0	-0.6800911873139804	Abstract (See species file)
13	P-HYDROXY-BENZOIC-ACID	Plant	252.0	333.0	-1.0	Abstract (See species file)
24	VANILLIC-ACID	Plant	221.0	347.0	1.4132666574417567	Abstract (See species file)
6	MYRISTIC-ACID	Fruit	200.0	219.0	-0.2588121993964581	USDA's Ag Handbook 8 and sequelae)
13	ALPHA-TERPINENE	Seed Essent. Oil	200.0	19700.0	0.21421162836665333	--
43	PROTocatechuic-ACID	Plant	167.0	179.0	0.8781551128951783	Abstract (See species file)
6	IRON	Fruit	112.0	227.0	0.3729596362352439	--
0	EO	Seed Essent. Oil	100.0	14900.0	-1.0	--
41	CAMPHOR	Fruit	100.0	1300.0	1.6456434313757062	--
16	P-CYMENE	Fruit	74.0	728.0	-0.4833946204797754	--
13	BETA-PINENE	Fruit	69.0	83.0	-0.2951842276648527	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	GERANYL-ACETATE	Fruit	52.0	988.0	0.7226725134299015	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-PALMITATE	Fruit	46.0	598.0	1.4140633715418722	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-STEARATE	Fruit	42.0	546.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Fruit	36.0	44.0	-0.3723049247176171	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
77	ZINC	Fruit	34.0	52.0	0.6528169783274335	--
60	LIMONENE	Fruit	34.0	1238.0	-0.5726537627760642	--
35	GERANIOL	Fruit	34.0	442.0	2.099882842620517	--
6	IRON	Leaf	30.0	528.0	0.41776327197286667	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Leaf	29.0	228.0	-0.14501134388228565	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
19	CARVONE	Fruit	21.0	26.0	-0.4990970041084822	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Fruit	21.0	23.0	-0.5039583507406544	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Fruit	18.0	19.0	-0.27825396850008577	--
11	NEROLIDOL	Fruit	14.0	17.0	-0.7181710539929176	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-LINOLATE	Fruit	13.0	166.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Fruit	13.0	169.0	-0.3581922077232703	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Leaf	13.0	136.0	0.468288830503172	--
9	TERPINOLENE	Fruit	13.0	26.0	-0.5876858204442595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-MYRISTATE	Fruit	12.0	153.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
12	COPPER	Fruit	10.0	13.0	0.014090749380317144	--
0	TRANS-2-DODECANAL	Fruit	9.0	114.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	BORON	Seed	9.0	29.0	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).
0	DECANAL	Fruit	6.0	80.0	0.4493870962844483	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
23	TERPINEN-4-OL	Fruit	6.0	80.0	-0.34623106760257755	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	CORIANDRIN	Shoot	4.2	106.6		--
15	RIBOFLAVIN	Fruit	3.0	4.0	-0.21615825716438572	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LINALOL-OXIDE	Fruit	2.0	21.0		--
9	CAMPHENE	Fruit	2.0	155.0	-0.2875286008211722	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Fruit	2.0	54.0	-0.7079078334166587	--
0	LINALOOL-OXIDE	Fruit	2.0	21.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Fruit	2.0	3.0	-0.29859918253223444	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DECYL-ALDEHYDE	Fruit	2.0	27.0		--
2	UNDECANAL	Fruit	1.0	8.0	1.4065369194811357	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-2-DECANAL	Fruit	1.0	18.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Leaf	1.0	16.0	1.6037378639175852	--
0	NONANAL	Fruit	1.0	18.0	-0.06494936824868595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Fruit	1.0	15.0	-0.37657545814518684	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	BETA-PHELLANDRENE	Fruit	1.0	13.0	-0.4703263293427	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Fruit	1.0	83.0	-0.509533484990146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	TRANS-ANETHOLE	Fruit	1.0	2.0	-0.9957288082990997	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Fruit	1.0	8.0	-0.39580267370453653	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	RIBOFLAVIN	Leaf	1.0	21.0	-0.07942432526480918	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	DIHYDROCORIANDRIN	Shoot	0.2	113.0		--
0	ETHYL-PENTEDECANOATE	Fruit	0.0	5.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	CITRONELLOL	Fruit	0.0	8.0	-0.021396130240373637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	9-TETRADECENAL	Leaf		924.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
14	ARGININE	Leaf				--
9	TERPINOLENE	Seed Essent. Oil		5300.0	-0.303409676929149	--
0	CORIANDRONE-E	Plant		0.6		--
25	P-COUMARIC-ACID	Fruit		16.0	-0.700035632491875	--
3	CIS-OCIMENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ESCLETIN-DIMETHYL-ETHER	Plant		0.2		--
5	SABINENE	Essential Oil				--
15	CITRONELLOL	Essential Oil				--
0	N-TETRADECANOIC-ACID	Seed Essent. Oil		5700.0		--
0	3'-METHOXY-QUERCETIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	TANNIN	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
102	CAFFEIC-ACID	Leaf				--
67	1,8-CINEOLE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CAR-3-ENE	Essential Oil				--
4	LYSINE	Leaf				--
0	1-(4-HYDROXY-PHENYL)-ETHANE-1,2-DIOL	Plant		4.0		--
19	ACETYL-CHOLINE	Seed		43.0	-0.7564731555082913	--
10	NEROL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DECANAL	Leaf		1005.0	1.4142130678317626	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	LEUCINE	Leaf				--
8	TYROSINE	Fruit				--
0	DIHYDROCORIANDRIN	Plant		0.4		--
7	PHENYLALANINE	Fruit				--
0	8-METHYNON-5-ENAL	Leaf		96.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
17	ANGELICIN	Seed				--
9	TERPINOLENE	Essential Oil				--
22	UMBELLIFERONE	Fruit				--
0	CORIANDRONE-D	Plant		0.09		--
9	OXALIC-ACID	Fruit		120.0	-0.29973195119586477	--
0	CIS-FERULIC-ACID	Plant		467.0		Abstract (See species file)
5	SABINENE	Seed Essent. Oil		1400.0	-0.4936167585696178	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SUGARS	Fruit		200000.0	-0.058650417947657976	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
9	OXALIC-ACID	Leaf		50.0	-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.
102	CAFFEIC-ACID	Fruit		770.0	-0.1963560462638582	--
41	CAMPHOR	Essential Oil				--
4	LYSINE	Fruit				--
3	(-)-BORNEOL	Essential Oil				--
0	ABSCISIC-ACID	Fruit		0.03	-1.0	--
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.
13	BETA-PINENE	Essential Oil				--
0	KAEMPFEROL-3-O-ALPHA-L-(3-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE)	Plant		2.0		--
29	TRYPTOPHAN	Leaf				--
7	PHENYLALANINE	Leaf				--
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.
0	ALPHA-THUJENE	Essential Oil				--
35	GERANIOL	Essential Oil				--
23	TERPINEN-4-OL	Essential Oil				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRIDECANAL	Leaf		168.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CORIANDRONE-C	Plant		0.12		--
18	OLEIC-ACID	Seed		94000.0	-0.20636501961421735	--
22	ISOQUERCITRIN	Fruit				--
0	CIS-FERULIC-ACID	Fruit		1360.0		Abstract (See species file)
0	7-DODECENAL	Leaf		2131.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
41	CAMPHOR	Seed Essent. Oil		58300.0	1.0	--
0	LINOLEIC-ACID-ETHYL-ESTER	Essential Oil				--
43	XANTHOTOXIN	Fruit				--
10	5-METHOXY-PSORALEN	Fruit				--
0	EO	Seed				--
87	RUTIN	Shoot				--
31	MYRISTICIN	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.
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.
0	KAEMPFEROL-3-O-ALPHA-L-(2,3-DI-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE)	Plant		8.0		--
0	TRICOSAN-1-OL	Seed				--
0	DECYL-ALDEHYDE	Seed Essent. Oil		70100.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETROSELINIC-ACID	Seed Oil				--
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.
23	ALPHA-TERPINEOL	Essential Oil				--
13	GERANIAL	Seed Essent. Oil		1300.0		--
23	TERPINEN-4-OL	Seed Essent. Oil		13800.0	-0.5326666411126562	--
0	TRICOSANOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CORIANDRONE-B	Plant		1.3		--
18	OLEIC-ACID	Seed Oil				--
18	CINNAMIC-ACID	Plant		40.0	1.0	Abstract (See species file)
0	6-UNDECENAL	Leaf		130.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	STARCH	Fruit		100000.0	-0.30384740496903184	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTANOL	Leaf		504.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
12	BORNYL-ACETATE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
27	LINOLEIC-ACID	Seed		132000.0	0.2131554891088805	--
0	VERATRIC-ACID	Plant		0.3		--
0	4-HYDROXY-BENZOIC-ACID	Plant		0.9		--
2	ELEMOL	Seed Essent. Oil		4130.0		--
0	QUERCETIN-GLYCOSIDE	Seed				--
0	D-DECYLALDEHYDE	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
17	ANGELICIN	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
3	BETA-PHELLANDRENE	Essential Oil				--
1	ISOSCOPOLETIN	Plant		0.1		--
1	TRIACONTAN-1-OL	Seed				--
0	DECAN-1-OL	Essential Oil				--
0	PETROSELINIC-ACID	Seed		718000.0	0.7588317381879648	--
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.
0	N-OCTADECANE	Essential Oil				--
0	3',4'-DIMETHOXYQUERCETIN	Leaf				--
23	ALPHA-TERPINEOL	Seed Essent. Oil		23200.0	-0.591786991122015	--
11	GAMMA-TERPINENE	Seed Essent. Oil		40800.0	-0.2831900813123795	--
4	SYRINGALDEHYDE	Plant		0.1		--
3	TRIACONTANOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CORIANDRONE-B	Shoot		50.0		--
0	OCTADECA-5,6-DIENOIC-ACID	Seed Oil				--
0	PENTOSANS	Fruit		100000.0	0.21063680874408397	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FURFUROL	Fruit		60000.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Seed		28.8	3.513354178720076	--
0	5-DECENAL	Leaf		101.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	OCTADECANE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Leaf		10000.0	-0.13502102138741875	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.
9	CAMPHENE	Essential Oil				--
0	LINALOOL-OXIDE	Essential Oil				--
3	VALINE	Fruit				--
67	1,8-CINEOLE	Seed Essent. Oil		13780.0	-1.0	--
0	DODECAN-1-OL	Essential Oil				--
0	QUERCETIN-GLYCOSIDE	Fruit				--
12	COPPER	Leaf		18.0	-0.2657646170188676	USDA's Ag Handbook 8 and sequelae)
0	ALPHA-THUJENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ISOLEUCINE	Fruit				--
0	TRANS-TRIDEC-2-EN-1-AL	Fruit				--
1	DECAN-1-AL	Seed Essent. Oil		1500.0		--
1	PALMITIC-ACID-ETHYL-ESTER	Essential Oil				--
31	PSORALEN	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CIS-LINALOOL-OXIDE	Seed Essent. Oil		1800.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-HEPTADECANE	Essential Oil				--
0	(R)-LINALOOL	Essential Oil				--
13	ALPHA-TERPINENE	Essential Oil				--
11	GAMMA-TERPINENE	Essential Oil				--
14	SUCROSE	Fruit				--
0	TRIACONTANE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CORIANDRONE-A	Plant		13.0		--
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.
1	TOLUENE	Leaf		117.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PENTADECANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	FRUCTOSE	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.
0	5,8-TRIDECADIENAL	Leaf		561.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	OCIMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
47	BETA-SITOSTEROL	Fruit		220.0	-0.5051872230351605	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAMPESTEROL	Fruit		30.0	-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.)
0	LINALOOL-ACETATE	Seed Essent. Oil		207780.0	1.4141992183349599	--
3	VALINE	Leaf				--
0	DODECAN-1-AL	Seed Essent. Oil		2000.0		--
2	QUERCETIN-3-O-BETA-D-GLUCURONIDE	Fruit				--
26	BERGAPTEN	Fruit				--
3	ISOLEUCINE	Leaf				--
0	TRANS-CITRAL	Essential Oil				--
0	WATER	Leaf		73000.0	-3.6650941195552518	USDA's Ag Handbook 8 and sequelae)
1	DECAN-1-AL	Essential Oil				--
13	PALMITIC-ACID	Seed Essent. Oil		58200.0		--
14	MANGANESE	Leaf		64.0	-0.35348854285141834	USDA's Ag Handbook 8 and sequelae)
5	MYRTENAL	Seed Essent. Oil		1600.0		--
0	(S)-(+)-LINALOOL	Essential Oil				--
0	GAMMA-SITOSTEROL	Fruit				--
12	STIGMASTEROL	Fruit		180.0	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.)
0	TRANS-TRIDECEN-(2)-AL-(1)	Plant				--
0	CORIANDRONE-A	Shoot		94.0		--
0	NONAN-1-AL	Essential Oil				--
24	PECTIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEPTADECANE	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	3-OCTENAL	Leaf		97.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
20	CHOLINE	Seed		1387.0	-0.26859216208459646	--
44	SCOPOLETIN	Fruit				--
1	DODECANOL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
102	CAFFEIC-ACID	Shoot				--
0	UNDECAN-1-AL	Seed Essent. Oil		0.2		--
0	DODECAN-1-AL	Essential Oil				--
176	QUERCETIN	Leaf				--
2	COBALT	Fruit		0.9	-0.42616188431853125	--
0	BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE	Fruit		8.0		--
7	HISTIDINE	Fruit				--
0	TRANS-BETA-OCIMENE	Seed Essent. Oil		900.0		--
0	DEC-TRANS-2-EN-1-AL	Essential Oil				--
1	P-HYDROXYCINNAMIC-ACID	Plant		1.1	-1.0000000000000002	--
43	PROTocatechuic-ACID	Fruit		760.0	0.9999999999999999	Abstract (See species file)
31	MYRISTICIN	Essential Oil				--
0	(+)-LINALOOL	Essential Oil				--
28	ALPHA-PINENE	Essential Oil				--
61	FERULIC-ACID	Plant		11.0	-1.3788754333101605	--
0	STEARIC-ACID-ETHYL-ESTER	Essential Oil				--
0	TRANS-P-COUMARIC-ACID	Plant		173.0		Abstract (See species file)
0	CORIANDRINONEDIOL	Seed		60.0		--
0	NEROL-ACETATE	Seed Essent. Oil		1900.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DECYLIC-ACID-ESTER	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	GLUCOSE	Fruit				--
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.
77	CHLOROGENIC-ACID	Shoot				--
0	SACCHAROSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	NICKEL	Fruit		2.4	-0.04957166517347313	--
2	DODECANAL	Leaf		1627.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Essential Oil				--
53	LINALOOL	Essential Oil		568000.0	1.9636483678850598	--
0	UNDECAN-1-AL	Essential Oil				--
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	DODEC-TRANS-2-EN-1-AL	Essential Oil				--
176	QUERCETIN	Shoot				--
3	ASPARTIC-ACID	Fruit				--
12	GLYCINE	Fruit				--
71	THYMOL	Seed Essent. Oil		68140.0	1.4139493228546411	--
5	DAUCOSTEROL	Seed				--
0	P-CYMOL	Seed Essent. Oil		67300.0		--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ETHYL-UNDECANOATE	Essential Oil				--
8	STEARIC-ACID	Seed Essent. Oil		2000.0		--
0	TRANS-P-COUMARIC-ACID	Fruit		1120.0		Abstract (See species file)
0	CORIANDRINOL	Fruit				--
10	NEROL	Essential Oil				--
0	TETRADECANAL	Leaf		132.0	0.9999999999999998	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CAPRINALDEHYDE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3,6-UNDECADIENAL	Leaf		342.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	CARYOPHYLLENE-OXIDE	Seed Essent. Oil		3610.0		--
22	MYRCENE	Essential Oil				--
0	(-)-4(R)-BETA-HYDROXY-PHENETHYL-FERULIC-ACID	Plant		3.0		--
7	DIPENTENE	Fruit				--
53	BETA-CAROTENE	Seed		0.0	-0.42930857989782434	--
0	UMBELLIPRENIN	Fruit				--
3	DIPHENYLAMINE	Fruit		9500.0		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.
31	PSORALEN	Seed				--
11	ALPHA-PHELLANDRENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
112	ASCORBIC-ACID	Fruit		920.0	-0.22728617216267144	--
8	GLUTAMIC-ACID	Fruit				--
4	THREONINE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	VANILLIC-ACID	Fruit		960.0	1.0	Abstract (See species file)
0	DAPHNETIN-8-O-BETA-D-GLUCOSIDE	Plant		0.12		--
16	P-CYMENE	Essential Oil				--
0	CIS-P-COUMARIC-ACID	Plant		273.0		Abstract (See species file)
11	ALPHA-PHELLANDRENE	Essential Oil				--
0	ETHYL-PENTADECANOATE	Essential Oil				--
1	SERINE	Fruit				--
0	TRANS-OCIMENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	CORIANDRIN	Plant		0.5		--
10	NEROL	Seed Essent. Oil		6150.0	1.0	--
0	2-DODECANAL	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
8	CARYOPHYLENE-OXIDE	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	MYRCENE	Seed Essent. Oil		6500.0	-0.6568116875911565	--
0	2-(4-HYDROXY-PHENYL)-ETHANOL	Plant		0.2		--
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	BICYCLOGERMACRENE	Seed Essent. Oil		400.0		--
60	LIMONENE	Essential Oil				--
22	UMBELLIFERONE	Plant		0.1		--
2	ELEMOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Activities Count	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.
0	PROLINE	Fruit				--
87	RUTIN	Fruit				--
16	ACETIC-ACID	Fruit		1.0	-0.6428126249807119	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
14	ARGININE	Fruit				--
0	GERANIOL-ACETATE	Essential Oil				--
0	TETRADECAN-1-AL	Seed Essent. Oil		1800.0		--
2	UNDECANAL	Leaf		304.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CYSTINE	Fruit				--
16	P-CYMENE	Seed Essent. Oil		900.0	-1.547238257753332	--
0	CIS-P-COUMARIC-ACID	Fruit		1440.0		Abstract (See species file)
3	ALANINE	Fruit				--
1	ETHYL-MYRISTATE	Essential Oil				--
44	SCOPOLETIN	Shoot				--
0	N-TRIACONTANE	Seed				--
0	ACETIC-ACID-ESTER	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
13	P-HYDROXY-BENZOIC-ACID	Fruit		960.0	1.409967005275492	Abstract (See species file)
13	GERANIAL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2-DODECANAL	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	CARYOPHYLLENE	Essential Oil				--
15	METHIONINE	Leaf				--
0	2-(4-HYDROXY-PHENYL)-2-METHOXY-ETHANOL	Plant		12.0		--
0	DELTA-5,6-OCTADECENIC-ACID	Fruit				--
47	BETA-SITOSTEROL	Seed				--
2	LEUCINE	Fruit				--
22	UMBELLIFERONE	Shoot				--
6	DILLAPIOL	Seed Essent. Oil		4500.0		--
2	PHYTOSTEROLS	Fruit		460.0	-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.)