

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Coriandrum sativum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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
18	OLEIC-ACID	Fruit	39930.0	167819.0	0.8126920882556948	--
15	FIBER	Leaf	16000.0	129000.0	-0.4023315981418849	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
60	LIMONENE	Seed Essent. Oil	15500.0	18950.0	-0.7918374700341749	--
35	BORNEOL	Seed Essent. Oil	15500.0	70100.0		--
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	--
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		--
14	POTASSIUM	Leaf	5600.0	48177.0	0.7874620147860205	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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	--
9	CAMPHENE	Seed Essent. Oil	2100.0	7600.0	1.2973683379921246	--
13	BETA-PINENE	Seed Essent. Oil	2100.0	13400.0	-0.7558724890143567	--
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

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	--
1	CORIANDROL	Fruit	400.0	10250.0		--
53	LINALOOL	Fruit	400.0	10250.0	2.2811487887245883	--
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)
13	ALPHA-TERPINENE	Seed Essent. Oil	200.0	19700.0	0.21421162836665333	--
6	MYRISTIC-ACID	Fruit	200.0	219.0	-0.2588121993964581	USDA's Ag Handbook 8 and sequelae)
43	PROTocatechuic-ACID	Plant	167.0	179.0	0.8781551128951783	Abstract (See species file)
6	IRON	Fruit	112.0	227.0	0.3729596362352439	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Fruit	36.0	44.0	-0.3723049247176171	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	GERANIOL	Fruit	34.0	442.0	2.099882842620517	--
77	ZINC	Fruit	34.0	52.0	0.6528169783274335	--
60	LIMONENE	Fruit	34.0	1238.0	-0.5726537627760642	--
6	IRON	Leaf	30.0	528.0	0.41776327197286667	--
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.
22	MYRCENE	Fruit	13.0	169.0	-0.3581922077232703	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Fruit	13.0	26.0	-0.5876858204442595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Leaf	13.0	136.0	0.468288830503172	--
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	--
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).

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.
9	CAMPHERE	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	--
31	THIAMIN	Fruit	2.0	3.0	-0.29859918253223444	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.
31	CARYOPHYLLENE	Fruit	1.0	8.0	-0.39580267370453653	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.
5	SABINENE	Fruit	1.0	83.0	-0.509533484990146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Leaf	1.0	16.0	1.6037378639175852	--
15	RIBOFLAVIN	Leaf	1.0	21.0	-0.07942432526480918	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	ALPHA-TERPINENE	Fruit	1.0	15.0	-0.37657545814518684	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	UNDECANAL	Fruit	1.0	8.0	1.4065369194811357	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
15	CITRONELLOL	Fruit	0.0	8.0	-0.021396130240373637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
61	FERULIC-ACID	Plant		11.0	-1.3788754333101605	--
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.
16	P-CYMENE	Seed Essent. Oil		900.0	-1.547238257753332	--
13	ALPHA-TERPINENE	Essential Oil				--
8	TYROSINE	Fruit				--
23	TERPINEN-4-OL	Seed Essent. Oil		13800.0	-0.5326666411126562	--
41	CAMPHOR	Essential Oil				--
15	METHIONINE	Leaf				--
2	ELEMOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
67	1,8-CINEOLE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	NEROL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
176	QUERCETIN	Leaf				--
24	CHROMIUM	Seed		28.8	3.513354178720076	--
3	ISOLEUCINE	Fruit				--
22	UMBELLIFERONE	Fruit				--
1	ETHYL-MYRISTATE	Essential Oil				--
25	P-COUMARIC-ACID	Fruit		16.0	-0.700035632491875	--
53	BETA-CAROTENE	Seed		0.0	-0.42930857989782434	--
4	SYRINGALDEHYDE	Plant		0.1		--
41	CAMPHOR	Seed Essent. Oil		58300.0	1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	LYSINE	Leaf				--
31	MYRISTICIN	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
176	QUERCETIN	Shoot				--
3	BETA-PHELLANDRENE	Essential Oil				--
3	ISOLEUCINE	Leaf				--
3	TRIACONTANOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
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.
9	OXALIC-ACID	Fruit		120.0	-0.29973195119586477	--
28	ALPHA-PINENE	Essential Oil				--
2	ELEMOL	Seed Essent. Oil		4130.0		--
13	P-HYDROXY-BENZOIC-ACID	Fruit		960.0	1.409967005275492	Abstract (See species file)
14	SUCROSE	Fruit				--
1	DODECANOL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	LYSINE	Fruit				--
31	PSORALEN	Seed				--
26	BERGAPTEN	Fruit				--
7	HISTIDINE	Fruit				--
7	GLUCOSE	Fruit				--
18	OLEIC-ACID	Seed		94000.0	-0.20636501961421735	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
44	SCOPOLETIN	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.)
9	CAMPHENE	Essential Oil				--
2	DODECANAL	Leaf		1627.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
27	LINOLEIC-ACID	Seed		132000.0	0.2131554891088805	--
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.)
3	ASPARTIC-ACID	Fruit				--
12	GLYCINE	Fruit				--
1	TOLUENE	Leaf		117.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
43	PROTocatechuic-ACID	Fruit		760.0	0.9999999999999999	Abstract (See species file)
29	TRYPTOPHAN	Leaf				--
15	CITRONELLOL	Essential Oil				--
18	OLEIC-ACID	Seed Oil				--
11	ALPHA-PHELLANDRENE	Essential Oil				--
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.

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.
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.
8	STEARIC-ACID	Seed Essent. Oil		2000.0		--
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.)
7	DIPENTENE	Fruit				--
14	MANGANESE	Leaf		64.0	-0.35348854285141834	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Fruit				--
112	ASCORBIC-ACID	Fruit		920.0	-0.22728617216267144	--
102	CAFFEIC-ACID	Leaf				--
8	GLUTAMIC-ACID	Fruit				--
3	(-)-BORNEOL	Essential Oil				--
1	TRIACONTAN-1-OL	Seed				--
10	NEROL	Essential Oil				--
3	ALANINE	Fruit				--
17	ANGELICIN	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
6	DILLAPIOL	Seed Essent. Oil		4500.0		--
87	RUTIN	Fruit				--
1	SERINE	Fruit				--
102	CAFFEIC-ACID	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Leaf		18.0	-0.2657646170188676	USDA's Ag Handbook 8 and sequelae)
53	LINALOOL	Essential Oil		568000.0	1.9636483678850598	--
7	PHENYLALANINE	Leaf				--
14	ARGININE	Fruit				--
102	CAFFEIC-ACID	Fruit		770.0	-0.1963560462638582	--
43	XANTHOTOXIN	Fruit				--
71	THYMOL	Seed Essent. Oil		68140.0	1.4139493228546411	--
20	CHOLINE	Seed		1387.0	-0.26859216208459646	--
13	GERANIAL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	NEROL	Seed Essent. Oil		6150.0	1.0	--
19	ACETYL-CHOLINE	Seed		43.0	-0.7564731555082913	--
1	DECAN-1-AL	Seed Essent. Oil		1500.0		--
2	OCIMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	SCOPOLETIN	Shoot				--
35	BORNEOL	Essential Oil				--
1	PALMITIC-ACID-ETHYL-ESTER	Essential Oil				--
14	ARGININE	Leaf				--
35	GERANIOL	Essential Oil				--
3	VALINE	Fruit				--
4	THREONINE	Leaf				--
77	CHLOROGENIC-ACID	Shoot				--
5	MYRTENAL	Seed Essent. Oil		1600.0		--
10	5-METHOXY-PSORALEN	Fruit				--
1	DECAN-1-AL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	NICKEL	Fruit		2.4	-0.04957166517347313	--
5	SABINENE	Essential Oil				--
2	COBALT	Fruit		0.9	-0.42616188431853125	--
60	LIMONENE	Essential Oil				--
17	ANGELICIN	Seed				--
12	BORNYL-ACETATE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
13	GERANIAL	Seed Essent. Oil		1300.0		--
13	PALMITIC-ACID	Seed Essent. Oil		58200.0		--
3	VALINE	Leaf				--
9	TERPINOLENE	Seed Essent. Oil		5300.0	-0.303409676929149	--
8	CARYOPHYLLENE-OXIDE	Seed Essent. Oil		3610.0		--
8	FRUCTOSE	Fruit				--
31	MYRISTICIN	Essential Oil				--
67	1,8-CINEOLE	Seed Essent. Oil		13780.0	-1.0	--
5	DAUCOSTEROL	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.
5	SABINENE	Seed Essent. Oil		1400.0	-0.4936167585696178	--
47	BETA-SITOSTEROL	Seed				--
2	LEUCINE	Fruit				--
24	VANILLIC-ACID	Fruit		960.0	1.0	Abstract (See species file)
47	BETA-SITOSTEROL	Fruit		220.0	-0.5051872230351605	--
11	GAMMA-TERPINENE	Seed Essent. Oil		40800.0	-0.2831900813123795	--

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.
1	P-HYDROXYCINNAMIC-ACID	Plant		1.1	-1.0000000000000002	--
23	ALPHA-TERPINEOL	Essential Oil				--
22	UMBELLIFERONE	Plant		0.1		--
24	PECTIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	TERPINOLENE	Essential Oil				--
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	Essential Oil				--
11	ALPHA-PHELLANDRENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CYSTINE	Fruit				--
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.
87	RUTIN	Shoot				--
3	CIS-OCIMENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	LEUCINE	Leaf				--
2	UNDECANAL	Leaf		304.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	ISOQUERCITRIN	Fruit				--
16	P-CYMENE	Essential Oil				--
23	ALPHA-TERPINEOL	Seed Essent. Oil		23200.0	-0.591786991122015	--
22	UMBELLIFERONE	Shoot				--
23	TERPINEN-4-OL	Essential Oil				--
31	CARYOPHYLLENE	Essential Oil				--
22	MYRCENE	Seed Essent. Oil		6500.0	-0.6568116875911565	--
16	ACETIC-ACID	Fruit		1.0	-0.6428126249807119	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	CORIANDRIN	Plant		0.5		--
31	PSORALEN	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				--
13	BETA-PINENE	Essential Oil				--
18	CINNAMIC-ACID	Plant		40.0	1.0	Abstract (See species file)
1	ISOSCOPOLETIN	Plant		0.1		--