

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Coriandrum sativum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	(-)-BORNEOL	Essential Oil				--
67	1,8-CINEOLE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Seed Essent. Oil		13780.0	-1.0	--
10	5-METHOXY-PSORALEN	Fruit				--
16	ACETIC-ACID	Fruit		1.0	-0.6428126249807119	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	ACETYL-CHOLINE	Seed		43.0	-0.7564731555082913	--
3	ALANINE	Fruit				--
11	ALPHA-PHELLANDRENE	Essential Oil				--
11	ALPHA-PHELLANDRENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Essential Oil				--
28	ALPHA-PINENE	Seed Essent. Oil	11400.0	52980.0	-0.3763795265608634	--
28	ALPHA-PINENE	Fruit	819.0	13780.0	2.8789050860769403	--
13	ALPHA-TERPINENE	Fruit	1.0	15.0	-0.37657545814518684	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Essential Oil				--
13	ALPHA-TERPINENE	Seed Essent. Oil	200.0	19700.0	0.21421162836665333	--
23	ALPHA-TERPINEOL	Fruit	36.0	44.0	-0.3723049247176171	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Essential Oil				--
23	ALPHA-TERPINEOL	Seed Essent. Oil		23200.0	-0.591786991122015	--
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	Fruit				--
14	ARGININE	Leaf				--
112	ASCORBIC-ACID	Fruit		920.0	-0.22728617216267144	--
112	ASCORBIC-ACID	Leaf	780.0	6290.0	0.13971175200302013	--
3	ASPARTIC-ACID	Fruit				--
26	BERGAPTEN	Fruit				--
53	BETA-CAROTENE	Seed		0.0	-0.42930857989782434	--
53	BETA-CAROTENE	Leaf	29.0	228.0	-0.14501134388228565	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
3	BETA-PHELLANDRENE	Seed Essent. Oil	400.0	18600.0	-0.3304275521980012	--
3	BETA-PHELLANDRENE	Essential Oil				--
13	BETA-PINENE	Seed Essent. Oil	2100.0	13400.0	-0.7558724890143567	--
13	BETA-PINENE	Essential Oil				--
13	BETA-PINENE	Fruit	69.0	83.0	-0.2951842276648527	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
47	BETA-SITOSTEROL	Seed				--
47	BETA-SITOSTEROL	Fruit		220.0	-0.5051872230351605	--
35	BORNEOL	Essential Oil				--
35	BORNEOL	Seed Essent. Oil	15500.0	70100.0		--
35	BORNEOL	Fruit	2.0	54.0	-0.7079078334166587	--
12	BORNYL-ACETATE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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).
102	CAFFEIC-ACID	Shoot				--
102	CAFFEIC-ACID	Leaf				--
102	CAFFEIC-ACID	Fruit		770.0	-0.1963560462638582	--
28	CALCIUM	Seed	6465.0	14469.0	1.8958241168450043	--
28	CALCIUM	Leaf	1330.0	13441.0	-0.34137725941345665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.)
9	CAMPHENE	Seed Essent. Oil	2100.0	7600.0	1.2973683379921246	--
9	CAMPHENE	Essential Oil				--
9	CAMPHENE	Fruit	2.0	155.0	-0.2875286008211722	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
41	CAMPHOR	Fruit	100.0	1300.0	1.6456434313757062	--
41	CAMPHOR	Essential Oil				--
41	CAMPHOR	Seed Essent. Oil		58300.0	1.0	--
19	CARVONE	Fruit	21.0	26.0	-0.4990970041084822	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	CARYOPHYLLENE	Essential Oil				--
31	CARYOPHYLLENE	Fruit	1.0	8.0	-0.39580267370453653	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	CARYOPHYLLENE-OXIDE	Seed Essent. Oil		3610.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
77	CHLOROGENIC-ACID	Plant	305.0	320.0	-0.6800911873139804	Abstract (See species file)
77	CHLOROGENIC-ACID	Shoot				--
20	CHOLINE	Seed		1387.0	-0.26859216208459646	--
24	CHROMIUM	Seed		28.8	3.513354178720076	--
18	CINNAMIC-ACID	Plant		40.0	1.0	Abstract (See species file)
3	CIS-OCIMENE	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	CITRONELLOL	Essential Oil				--
15	CITRONELLOL	Seed Essent. Oil	6150.0	14620.0		--
15	CITRONELLOL	Fruit	0.0	8.0	-0.021396130240373637	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	COBALT	Fruit		0.9	-0.42616188431853125	--
12	COPPER	Leaf		18.0	-0.2657646170188676	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Fruit	10.0	13.0	0.014090749380317144	--
1	CORIANDRIN	Plant		0.5		--
1	CORIANDRIN	Shoot	4.2	106.6		--
1	CORIANDROL	Fruit	400.0	10250.0		--
2	CYSTINE	Fruit				--
5	DAUCOSTEROL	Seed				--
1	DECAN-1-AL	Seed Essent. Oil		1500.0		--
1	DECAN-1-AL	Essential Oil				--
6	DILLAPIOL	Seed Essent. Oil		4500.0		--
7	DIPENTENE	Fruit				--

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.
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.
2	DODECANAL	Leaf		1627.0		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	Seed Essent. Oil		4130.0		--
2	ELEMOL	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 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.
1	ETHYL-MYRISTATE	Essential Oil				--
1	ETHYL-PALMITATE	Fruit	46.0	598.0	1.4140633715418722	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
61	FERULIC-ACID	Plant		11.0	-1.3788754333101605	--
15	FIBER	Leaf	16000.0	129000.0	-0.4023315981418849	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Fruit	291000.0	319000.0	1.6733109057803188	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	FRUCTOSE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Fruit	762.0	2626.0	-0.16808278013485026	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Seed Essent. Oil		40800.0	-0.2831900813123795	--
11	GAMMA-TERPINENE	Essential Oil				--
13	GERANIAL	Seed Essent. Oil		1300.0		--
13	GERANIAL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	GERANIOL	Seed Essent. Oil	6720.0	69700.0	0.1099647159636269	--
35	GERANIOL	Essential Oil				--
35	GERANIOL	Fruit	34.0	442.0	2.099882842620517	--
5	GERANYL-ACETATE	Fruit	52.0	988.0	0.7226725134299015	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	GLUCOSE	Fruit				--
8	GLUTAMIC-ACID	Fruit				--
12	GLYCINE	Fruit				--
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	Leaf	30.0	528.0	0.41776327197286667	--
6	IRON	Fruit	112.0	227.0	0.3729596362352439	--
3	ISOLEUCINE	Leaf				--
3	ISOLEUCINE	Fruit				--
22	ISOQUERCITRIN	Fruit				--
1	ISOSCOPELETIN	Plant		0.1		--
2	LEUCINE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	LEUCINE	Leaf				--
60	LIMONENE	Seed Essent. Oil	15500.0	18950.0	-0.7918374700341749	--
60	LIMONENE	Essential Oil				--
60	LIMONENE	Fruit	34.0	1238.0	-0.5726537627760642	--
53	LINALOOL	Seed Essent. Oil	414190.0	742300.0	2.216550400992289	--
53	LINALOOL	Essential Oil		568000.0	1.9636483678850598	--
53	LINALOOL	Fruit	400.0	10250.0	2.2811487887245883	--
27	LINOLEIC-ACID	Seed		132000.0	0.2131554891088805	--
27	LINOLEIC-ACID	Fruit	13030.0	18260.0	-0.09777897022873985	--
4	LYSINE	Fruit				--
4	LYSINE	Leaf				--
65	MAGNESIUM	Leaf	6940.0	7488.0	1.2982818168844166	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	2939.0	4016.0	0.8734494335760973	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Leaf		64.0	-0.35348854285141834	USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Fruit	18.0	19.0	-0.27825396850008577	--
15	METHIONINE	Leaf				--
22	MYRCENE	Fruit	13.0	169.0	-0.3581922077232703	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Essential Oil				--
22	MYRCENE	Seed Essent. Oil		6500.0	-0.6568116875911565	--
6	MYRISTIC-ACID	Fruit	200.0	219.0	-0.2588121993964581	USDA's Ag Handbook 8 and sequelae)
31	MYRISTICIN	Essential Oil				--
31	MYRISTICIN	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	MYRTENAL	Seed Essent. Oil		1600.0		--
10	NEROL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	NEROL	Seed Essent. Oil		6150.0	1.0	--
10	NEROL	Fruit				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	NEROLIDOL	Fruit	14.0	17.0	-0.7181710539929176	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Leaf	13.0	136.0	0.468288830503172	--
39	NIACIN	Fruit	21.0	23.0	-0.5039583507406544	USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Fruit		2.4	-0.04957166517347313	--
2	OCIMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Seed		94000.0	-0.20636501961421735	--
18	OLEIC-ACID	Seed Oil				--
18	OLEIC-ACID	Fruit	39930.0	167819.0	0.8126920882556948	--
9	OXALIC-ACID	Fruit		120.0	-0.29973195119586477	--
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.
25	P-COUMARIC-ACID	Fruit		16.0	-0.700035632491875	--
16	P-CYMENE	Fruit	74.0	728.0	-0.4833946204797754	--
16	P-CYMENE	Essential Oil				--
16	P-CYMENE	Seed Essent. Oil		900.0	-1.547238257753332	--
13	P-HYDROXY-BENZOIC-ACID	Fruit		960.0	1.409967005275492	Abstract (See species file)
13	P-HYDROXY-BENZOIC-ACID	Plant	252.0	333.0	-1.0	Abstract (See species file)
1	P-HYDROXYCINNAMIC-ACID	Plant		1.1	-1.0000000000000002	--
13	PALMITIC-ACID	Seed Essent. Oil		58200.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Fruit	2160.0	16800.0	-0.10399513962361799	--
1	PALMITIC-ACID-ETHYL-ESTER	Essential Oil				--
2	PALMITOLEIC-ACID	Fruit	1000.0	1097.0	-0.14493129159756157	USDA's Ag Handbook 8 and sequelae)
24	PECTIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	PHENYLALANINE	Fruit				--
7	PHENYLALANINE	Leaf				--
4	PHOSPHORUS	Leaf	720.0	6452.0	0.27240108248500583	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)
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.)
14	POTASSIUM	Leaf	5600.0	48177.0	0.7874620147860205	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	POTASSIUM	Fruit	11866.0	14781.0	-0.27740968352885775	USDA's Ag Handbook 8 and sequelae)
43	PROTocatechuic-ACID	Plant	167.0	179.0	0.8781551128951783	Abstract (See species file)
43	PROTocatechuic-ACID	Fruit		760.0	0.9999999999999999	Abstract (See species file)
31	PSORALEN	Seed				--
31	PSORALEN	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
176	QUERCETIN	Shoot				--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Leaf				--
2	QUERCETIN-3-O-BETA-D-GLUCURONIDE	Fruit				--
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	Leaf	1.0	21.0	-0.07942432526480918	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Fruit	3.0	4.0	-0.21615825716438572	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
87	RUTIN	Fruit				--
87	RUTIN	Shoot				--
5	SABINENE	Fruit	1.0	83.0	-0.509533484990146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Essential Oil				--
5	SABINENE	Seed Essent. Oil		1400.0	-0.4936167585696178	--
44	SCOPOLETIN	Fruit				--
44	SCOPOLETIN	Shoot				--
1	SERINE	Fruit				--
1	SODIUM	Leaf	940.0	7581.0	0.6991528552357646	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	SODIUM	Fruit	308.0	430.0	-0.14317436938042027	USDA's Ag Handbook 8 and sequelae)
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.
8	STEARIC-ACID	Seed Essent. Oil		2000.0		--
8	STEARIC-ACID	Fruit	1100.0	1207.0	-0.1991755963123703	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.)
14	SUCROSE	Fruit				--
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	Essential Oil				--
23	TERPINEN-4-OL	Seed Essent. Oil		13800.0	-0.5326666411126562	--
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.
9	TERPINOLENE	Seed Essent. Oil		5300.0	-0.303409676929149	--
9	TERPINOLENE	Essential Oil				--
9	TERPINOLENE	Fruit	13.0	26.0	-0.5876858204442595	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
31	THIAMIN	Leaf	1.0	16.0	1.6037378639175852	--
31	THIAMIN	Fruit	2.0	3.0	-0.29859918253223444	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	THREONINE	Leaf				--
71	THYMOL	Seed Essent. Oil		68140.0	1.4139493228546411	--
1	TOLUENE	Leaf		117.0		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.
1	TRIACONTAN-1-OL	Seed				--

Activities Count	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.
29	TRYPTOPHAN	Leaf				--
8	TYROSINE	Fruit				--
22	UMBELLIFERONE	Fruit				--
22	UMBELLIFERONE	Plant		0.1		--
22	UMBELLIFERONE	Shoot				--
2	UNDECANAL	Fruit	1.0	8.0	1.4065369194811357	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	UNDECANAL	Leaf		304.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	VALINE	Fruit				--
3	VALINE	Leaf				--
24	VANILLIC-ACID	Plant	221.0	347.0	1.4132666574417567	Abstract (See species file)
24	VANILLIC-ACID	Fruit		960.0	1.0	Abstract (See species file)
43	XANTHOTOXIN	Fruit				--
77	ZINC	Fruit	34.0	52.0	0.6528169783274335	--