

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Apium graveolens

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
176	QUERCETIN	Pt		0.0		--
112	ASCORBIC-ACID	Fruit	357.0	1700.0	-0.17878811783375667	--
112	ASCORBIC-ACID	Shoot	17.0	129.0	-0.3648933330728539	--
112	ASCORBIC-ACID	Seed	171.0	1700.0	0.6821363243307782	--
112	ASCORBIC-ACID	Pt	58.0	2778.0	-0.2550992791713734	--
112	ASCORBIC-ACID	Plant	17.0	129.0	-0.563401826162719	--
102	CAFFEIC-ACID	Root				--
102	CAFFEIC-ACID	Leaf				--
102	CAFFEIC-ACID	Seed				Wealth of India.
101	APIGENIN	Seed				--
101	APIGENIN	Pt	0.0	1910.0		--
101	APIGENIN	Plant				--
87	RUTIN	Shoot		170.0	-0.5604271785023887	--
87	RUTIN	Plant		170.0	-0.6792061954574901	--
78	LUTEOLIN	Seed				--
78	LUTEOLIN	Pt	0.0	400.0		--
78	LUTEOLIN	Leaf		80.0	-0.5838472995588694	--
77	ZINC	Fruit	0.3	1.2	-0.8755455941178387	--
77	ZINC	Seed	0.2	89.0	1.2454197651166274	--
77	CHLOROGENIC-ACID	Root				--
77	ZINC	Root	2.8	70.0	2.0068925301263634	ACTA AGRIC SCAND SUPPL 22: 1980
77	ZINC	Leaf	1.0	44.0	-0.2567393296527067	USDA's Ag Handbook 8 and sequelae)
77	CHLOROGENIC-ACID	Leaf				--
77	CHLOROGENIC-ACID	Seed				Wealth of India.
76	EUGENOL	Seed Essent. Oil				--
76	EUGENOL	Plant				Stitt, Paul. Why George should eat broccoli.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
75	KAEMPFEROL	Leaf		0.0	-0.755027215594713	--
71	THYMOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
71	THYMOL	Seed Essent. Oil		1700.0	-0.683300111818577	--
71	THYMOL	Plant				--
65	MAGNESIUM	Seed	155.0	4903.0	0.7731568198649487	--
65	MAGNESIUM	Fruit	153.0	730.0	-0.648159482294604	--
65	MAGNESIUM	Root	140.0	1635.0	-0.4930193973019779	ACTA AGRIC SCAND SUPPL 22: 1980
65	MAGNESIUM	Leaf	99.0	2650.0	-0.5698349070295108	USDA's Ag Handbook 8 and sequelae)
61	FERULIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Essential Oil				--
60	LIMONENE	Et		695000.0	1.0	--
60	CINNAMALDEHYDE	Seed Essent. Oil		1500.0		--
60	LIMONENE	Root Essent. Oil		117000.0	0.2687678089626183	--
60	LIMONENE	Fruit Essent. Oil	350000.0	706000.0	0.5704970731129614	--
60	SELENIUM	Seed		0.2	-0.26179413521870387	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
60	SELENIUM	Root		0.002	-0.3623106990048751	ACTA AGRIC SCAND SUPPL 22: 1980
60	SELENIUM	Fruit		0.2	-0.3365919582076448	--
60	LIMONENE	Stem Essent. Oil		695000.0		--
60	LIMONENE	Leaf Essent. Oil		621000.0	2.0668254322619717	--
60	LIMONENE	Seed Essent. Oil	350000.0	721600.0	2.1440076891973874	--
60	LIMONENE	Seed	530.0	24000.0	0.9558696966291022	--
57	COUMARIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Pt	1.0	144.0	1.4105317625651812	--
53	BETA-CAROTENE	Fruit	8.0	36.0	-0.0812132777507324	--
53	LINALOOL	Seed Essent. Oil		14800.0	-0.5026656132656973	--
53	LINALOOL	Seed	1.0	90.0	-0.4729972748643267	--
53	BETA-CAROTENE	Seed	7.5	36.0	1.8210249021680307	--
47	BETA-SITOSTEROL	Seed		210.0	-0.550389634708716	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
47	BETA-SITOSTEROL	Pt		30.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
44	SCOPOLETIN	Leaf				--
44	SCOPOLETIN	Plant				--
43	PROTocatechuic-acid	Plant				Pakistan Encyclopedia Planta Medica. 1986.
43	XANTHOTOXIN	Seed				--
43	XANTHOTOXIN	Root				--
43	XANTHOTOXIN	Stem				--
43	XANTHOTOXIN	Shoot		183.0	0.21179380895139957	--
43	XANTHOTOXIN	Pt	0.04	1.6		--
43	XANTHOTOXIN	Plant	6.0	183.0		--
39	NIACIN	Fruit	3.0	12.0	-0.6510092608917062	--
39	NIACIN	Seed	2.5	12.0	-0.9245464566376991	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
39	NIACIN	Pt	3.0	57.0	0.7071067811865468	--
32	ALPHA-TOCOPHEROL	Pt	3.0	67.0	1.0	--
32	ALPHA-TOCOPHEROL	Plant	0.0	64.0	-1.0	--
32	ALPHA-TOCOPHEROL	Seed				--
32	ALPHA-TOCOPHEROL	Shoot	0.0	64.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	ALPHA-TOCOPHEROL	Leaf	136.0	266.0	-0.22853429341464526	--
31	THIAMIN	Pt	0.0	10.0	1.2611720796963626	--
31	PSORALEN	Seed				--
31	MYRISTICIN	Plant				--
31	PSORALEN	Stem				--
31	MYRISTICIN	Seed	230.0	360.0	-0.9910907272077998	--
31	CARYOPHYLLENE	Seed Essent. Oil		1700.0		--
31	PSORALEN	Pt	0.0	0.15		--
31	PSORALEN	Leaf		0.0	-0.7114864882774733	--
31	PSORALEN	Plant				--
30	MENTHONE	Seed Essent. Oil				--
30	MENTHONE	Essential Oil				--
29	TRYPTOPHAN	Pt	90.0	1865.0		USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Fruit	1680.0	8000.0	0.9562048951774965	--
28	ALPHA-PINENE	Stem Essent. Oil		14000.0	-1.0	--
28	ALPHA-PINENE	Seed Essent. Oil	10000.0	10500.0	-0.6694735069151678	--
28	ALPHA-PINENE	Seed		300.0	-0.47140904876924467	--
28	CALCIUM	Seed	170.0	20776.0	3.054154794705198	--
28	ALPHA-PINENE	Et	12000.0	14000.0	-1.0	--
28	CALCIUM	Root	340.0	3635.0	-0.4126425625417656	ACTA AGRIC SCAND SUPPL 22: 1980
28	ALPHA-PINENE	Root Essent. Oil		179000.0	0.7700366703490429	--
28	CALCIUM	Pt	313.0	11918.0	-1.4133911092017	--
28	ALPHA-PINENE	Leaf Essent. Oil		2000.0	-0.7421534872468563	--
28	ADENOSINE	Plant				--
28	ALPHA-PINENE	Fruit Essent. Oil		10000.0	-0.7166152772658864	--
27	LINOLEIC-ACID	Pt	690.0	12875.0		USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Leaf	60.0	1132.0	-1.1912413119904384	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Seed	178000.0	46560.0	-0.5189029132357875	--
26	BERGAPTEN	Seed		1.0	-0.8858167353904262	--
26	BERGAPTEN	Pt	0.04	0.81		--
26	BERGAPTEN	Shoot		145.0	-1.0	--
26	BERGAPTEN	Plant		520.0	-1.0	--
26	BERGAPTEN	Root				--
26	BERGAPTEN	Leaf		1.17	-0.5894785933481757	--
25	IMPERATORIN	Root				--
25	P-COUMARIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	IMPERATORIN	Seed				Wealth of India.
25	IMPERATORIN	Leaf				--
24	PECTIN	Leaf		3000.0	-1.5086314748174974	Pakistan Encyclopedia Planta Medica. 1986.
24	CHROMIUM	Root	0.002	0.045	-0.5509691200246839	ACTA AGRIC SCAND SUPPL 22: 1980
24	CHROMIUM	Seed				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Fruit				--
23	ALPHA-TERPINEOL	Fruit Essent. Oil	3000.0	14000.0	-0.30405553353793474	--
23	ALPHA-TERPINEOL	Essential Oil				--
23	CITRIC-ACID	Pt				--
23	TERPINEN-4-OL	Seed	1.0	1400.0	0.06885583974834963	--
23	TERPINEN-4-OL	Leaf Essent. Oil		1000.0	-0.5406868834711872	--
23	ALPHA-TERPINEOL	Seed	1.0	420.0	-0.37493466702522626	--
23	ALPHA-TERPINEOL	Root Essent. Oil		69000.0	1.0	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil		1000.0	-0.8444420280137835	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Seed Essent. Oil	5000.0	14000.0	-0.651073092591952	--
23	CITRIC-ACID	Root				--
22	UMBELLIFERONE	Seed				--
22	MYRCENE	Fruit Essent. Oil	2000.0	61000.0	0.9225422159382141	--
22	MYRCENE	Shoot				--
22	ISOQUERCITRIN	Seed				--
22	MYRCENE	Stem Essent. Oil		18000.0	1.0	--
22	MYRCENE	Seed Essent. Oil	2000.0	61000.0	-0.07142759971351088	--
22	SCOPARONE	Leaf				--
22	MYRCENE	Seed	40.0	1830.0	-0.02492651845909201	--
22	MYRCENE	Et		18000.0	1.0	--
22	MYRCENE	Root Essent. Oil		18000.0	-0.41513379237755443	--
22	MYRCENE	Leaf Essent. Oil		14000.0	-0.31228842453179745	--
21	8-METHOXY-PSORALEN	Leaf	0.0	1.0		--
21	NICOTINE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
20	CITRONELLAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
20	APIOLE	Seed	115.0	180.0	-1.0	--
20	CHOLINE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
20	APIOLE	Essential Oil				--
20	CITRONELLAL	Shoot				--
19	CARVONE	Seed	19.0	75.0	-1.2079718747791435	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	CARVONE	Seed Essent. Oil	900.0	550000.0	-0.4461789646766616	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
19	CARVONE	Leaf		1.0	-0.2826540108062902	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	CARVONE	Shoot				--
19	CARVONE	Essential Oil	2000.0	5000.0	-0.840408219433312	--
19	CARVONE	Fruit Essent. Oil		550000.0	1.414109513569833	--
18	GUAIACOL	Shoot				--
18	GUAIACOL	Essential Oil				--
18	MANNITOL	Plant				--
18	MANNITOL	Shoot				--
18	MANNITOL	Leaf				--
18	OLEIC-ACID	Seed Oil				--
18	MANNITOL	Stem		20000.0		--
18	OLEIC-ACID	Seed	73200.0	162560.0	0.3572384351765495	--
18	MANNITOL	Root		50000.0	0.23330584134440507	--
18	OLEIC-ACID	Pt	230.0	4850.0		USDA's Ag Handbook 8 and sequelae)
18	GUAIACOL	Seed				--
18	GUAIACOL	Leaf				--
17	ANGELICIN	Stem				--
17	BENZYL-BENZOATE	Shoot				--
16	P-CYMENE	Et		17000.0	1.0	--
16	P-CYMENE	Root Essent. Oil		31000.0	1.4362919950712267	--
16	P-CYMENE	Fruit Essent. Oil	2000.0	31000.0	1.1182650591230865	--
16	P-CYMENE	Stem Essent. Oil		17000.0	-1.0	--
16	P-CYMENE	Leaf Essent. Oil		4000.0	-0.7192886194278051	--
16	P-CYMENE	Seed Essent. Oil	2000.0	31000.0	-0.0997830422638124	--
16	ACETIC-ACID	Plant				--
16	P-CYMENE	Seed	20.0	930.0	-0.49278287384619057	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	ALPHA-LINOLENIC-ACID	Seed	1600.0	2554.0	-0.2805131186501865	USDA's Ag Handbook 8 and sequelae)
15	ISOPIMPINELLIN	Petiole	0.05	0.41		--
15	MALIC-ACID	Pt				--
15	RIBOFLAVIN	Pt	0.0	34.0	1.3317125985137388	--
15	ISOPIMPINELLIN	Pt	0.05	0.41		--
15	ISOPIMPINELLIN	Seed				--
15	ISOPIMPINELLIN	Plant				--
15	ISOPIMPINELLIN	Shoot		122.0	1.0	--
15	METHIONINE	Pt	50.0	1120.0		USDA's Ag Handbook 8 and sequelae)
15	ISOPIMPINELLIN	Root				--
15	OSTHOL	Leaf				--
15	MALIC-ACID	Shoot				--
15	RIBOFLAVIN	Seed	0.1	0.6	-1.1207183689683347	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	RIBOFLAVIN	Fruit	0.1	0.6	-0.9443248460470646	--
15	MALIC-ACID	Root				--
15	FIBER	Seed	106750.0	138586.0	0.03006212223460727	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Pt	6900.0	158000.0	-0.42530368144617087	--
14	SUCROSE	Shoot				--
14	MANGANESE	Pt	1.0	33.0	-1.0	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Pt	200.0	4105.0		USDA's Ag Handbook 8 and sequelae)
14	MANGANESE	Fruit	1.3	6.3	-0.3619961117886394	--
14	POTASSIUM	Seed	1210.0	15330.0	0.24271923351356245	--
14	POTASSIUM	Root	3900.0	56360.0	2.9714959220635757	ACTA AGRIC SCAND SUPPL 22: 1980
14	POTASSIUM	Pt	2689.0	57800.0	0.5197113646473143	--
14	SULFUR	Root	100.0	1000.0	-0.5087729499120315	ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Seed	1.3	76.0	0.28001116376454066	--
14	SHIKIMIC-ACID	Root				--
14	SUCROSE	Plant				--
14	POTASSIUM	Fruit	1210.0	5760.0	-1.0755302557669684	--
14	MANGANESE	Root	0.74	23.0	-0.27123195934439603	ACTA AGRIC SCAND SUPPL 22: 1980
13	BETA-PINENE	Leaf Essent. Oil		2000.0	-0.9267593911993299	--
13	BETA-PINENE	Seed	57.0	1530.0	-0.5053346825286588	--
13	ALPHA-TERPINENE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	MUFA	Pt	270.0	5035.0		USDA's Ag Handbook 8 and sequelae)
13	BETA-PINENE	Fruit Essent. Oil	5.0	15000.0	-0.5950573182789025	--
13	ALPHA-TERPINENE	Fruit Essent. Oil		1000.0	-0.8348120728111189	--
13	PALMITIC-ACID	Seed	9470.0	32760.0	-0.02365595254605948	--
13	FALCARINDIOL	Root		3.3	-1.0293857207627424	--
13	PALMITIC-ACID	Pt	280.0	5970.0		USDA's Ag Handbook 8 and sequelae)
13	BETA-EUDES MOL	Seed	76.0	225.0		--
13	PALMITIC-ACID	Essential Oil				--
13	ALPHA-TERPINENE	Leaf Essent. Oil				--
13	ALPHA-TERPINENE	Seed Essent. Oil		1000.0	-1.0089204175742374	--
13	BETA-PINENE	Root Essent. Oil		179000.0	1.3589513237802975	--
13	BETA-PINENE	Stem Essent. Oil		12000.0	-1.0	--
13	BETA-PINENE	Seed Essent. Oil	5000.0	15000.0	-0.7438446821280019	--
12	HERNIARIN	Leaf				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
12	FORMALDEHYDE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	GLYCINE	Pt	210.0	4290.0		USDA's Ag Handbook 8 and sequelae)
12	COPPER	Seed		14.0	-0.07387673724713412	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Root	0.7	11.0	-0.07975431813856294	ACTA AGRIC SCAND SUPPL 22: 1980
12	FORMALDEHYDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	COPPER	Pt	0.4	7.0	1.0000000000000007	USDA's Ag Handbook 8 and sequelae)
12	STIGMASTEROL	Seed		300.0	-0.1490513045808515	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
12	STIGMASTEROL	Pt		30.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
11	GAMMA-TERPINENE	Seed	7.0	10.0	-0.8268964662241418	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
11	PANTOTHENIC-ACID	Pt	1.0	36.0	0.9999999999999997	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Seed Essent. Oil		2000.0	-0.8573553114168811	--
11	GAMMA-TERPINENE	Leaf Essent. Oil				--
11	PERILLALDEHYDE	Seed		1.0	-0.8994543025293285	--
11	ADENINE	Plant				--
11	ALPHA-PHELLANDRENE	Fruit		2000.0	0.431635886715178	--
10	3-N-BUTYL-PHTHALIDE	Fruit Essent. Oil		108000.0		--
10	BUTYLIDENE-PHTHALIDE	Et		12000.0		--
10	BUTYLIDENE-PHTHALIDE	Leaf Essent. Oil		15000.0		--
10	BUTYLIDENE-PHTHALIDE	Fruit Essent. Oil		4000.0		--
10	5-METHOXY-PSORALEN	Leaf Wax		2.0		--
10	5-METHOXY-PSORALEN	Fruit	0.0	7.0	-0.18569533817705186	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	5-METHOXY-PSORALEN	Seed	0.0	7.0	1.0	--
10	BUTYLIDENE-PHTHALIDE	Stem Essent. Oil		12000.0		--
10	BUTYLIDENE-PHTHALIDE	Seed Essent. Oil		4000.0		--
10	3-N-BUTYL-PHTHALIDE	Seed				--
10	PIPERIDINE	Pt		1.0		--
10	3-N-BUTYL-PHTHALIDE	Seed Essent. Oil		108000.0		--
10	3-N-BUTYL-PHTHALIDE	Leaf Essent. Oil		40000.0		--
9	CAMPHENE	Seed Essent. Oil				--
9	CAMPHENE	Leaf Essent. Oil		1000.0	-0.8415153554301138	--
9	TERPINOLENE	Leaf Essent. Oil		2000.0	-0.5940205732207128	--
9	TERPINOLENE	Fruit Essent. Oil		2000.0	-0.6853536216871218	--
9	OXALIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
9	TERPINOLENE	Root Essent. Oil		33000.0	-0.6841134180353257	--
9	SINAPIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
9	VALERIC-ACID	Flower				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Seed Essent. Oil		2000.0	-0.6238102957663303	--
9	CAMPHENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
8	INOSINE	Plant				--
8	TYROSINE	Pt	90.0	1865.0		USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	3100.0	5000.0	-0.456907018776356	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Pt	30.0	560.0		USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	TRANS-ANETHOLE	Plant		1.0	-0.45718340800114365	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	GLUTAMIC-ACID	Pt	860.0	18285.0		USDA's Ag Handbook 8 and sequelae)
8	FRUCTOSE	Plant				--
8	INOSITOL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	ISOIMPERATORIN	Seed				--
8	INOSINE	Shoot				--
8	CARYOPHYLENE-OXIDE	Seed	125.0	200.0	-1.3209276708861737	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
8	GENTISIC-ACID	Leaf				Griffiths, L. A. 1959. On the Distribution of Gentisic Acid in Green Plants. J. Exp. Biol. 10: 437.
8	FRUCTOSE	Shoot				--
7	SALICYLATES	Seed		100.0	0.19635197050159953	--
7	SUCCINIC-ACID	Pt				--
7	SALICYLATES	Pt		0.0		--
7	SUCCINIC-ACID	Root				--
7	LIGUSTILIDE	Root Essent. Oil		5000.0	-1.0	--
7	LIGUSTILIDE	Stem Essent. Oil		2000.0		--
7	HISTIDINE	Pt	110.0	2425.0		USDA's Ag Handbook 8 and sequelae)
7	LINALYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	LIGUSTILIDE	Seed Essent. Oil		24100.0		--
7	PHENYLALANINE	Leaf	190.0	4105.0	-1.592673637880879	USDA's Ag Handbook 8 and sequelae)
7	FUMARIC-ACID	Pt				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Shoot				--
7	LIGUSTILIDE	Leaf Essent. Oil		2000.0		--
7	LIGUSTILIDE	Essential Oil	2000.0	5000.0	-1.0	--
7	GLUCOSE	Plant				--
7	PIPERITONE	Seed Essent. Oil				--
7	PIPERITONE	Fruit				--
7	PIPERITONE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
7	LAURIC-ACID	Seed	200.0	213.0	-0.5104209587903109	USDA's Ag Handbook 8 and sequelae)
7	FUMARIC-ACID	Root				--
6	IRON	Fruit	25.0	120.0	-0.051480525146559	--
6	MYRISTIC-ACID	Seed	125.0	213.0	-0.2932148633872675	--
6	ACETALDEHYDE	Shoot				--
6	MYRISTIC-ACID	Pt	10.0	190.0		USDA's Ag Handbook 8 and sequelae)
6	TARTARIC-ACID	Pt				--
6	IRON	Seed	25.0	571.0	1.9524099785593705	--
6	IRON	Root	3.6	47.0	-0.3733720521591977	ACTA AGRIC SCAND SUPPL 22: 1980
6	TARTARIC-ACID	Root				--
6	IRON	Pt	3.0	347.0	1.289042144893524	--
6	ACETALDEHYDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	ISOVALERIC-ACID	Seed		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	ALPHA-IONONE	Plant				--
5	ALUMINUM	Root	0.3	9.0	-0.3076511978543176	ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	GLUTAMINE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	HEXANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	P-METHOXY-CINNAMIC-ACID	Seed		7.5		--
5	BETA-ELEMENE	Seed	1.0	875.0	1.4124808434543825	--
5	SABINENE	Leaf Essent. Oil				--
5	MYRTENAL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
5	BETA-ELEMENE	Seed Essent. Oil		35000.0		--
5	BETA-ELEMENE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Seed Essent. Oil		7600.0	-0.46016340929144367	--
5	BETA-ELEMENE	Leaf Essent. Oil				--
5	ALPHA-IONONE	Seed Essent. Oil		500.0		--
5	LUTEOLIN-7-O-BETA-GLUCOSIDE	Plant				--
5	SABINENE	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	BETA-ELEMENE	Fruit Essent. Oil		35000.0	1.6778472777341984	--
5	NERYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	GERANYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	CNIDILIDE	Root				--
4	PHOSPHORUS	Fruit	979.0	4660.0	0.4386018787156484	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	NERAL	Shoot				--
4	THREONINE	Pt	190.0	4105.0		USDA's Ag Handbook 8 and sequelae)
4	ISOPULEGONE	Seed Essent. Oil		1600.0		--
4	PHOSPHORUS	Seed	980.0	6843.0	0.3936525339343855	--
4	GLYCOLIC-ACID	Root				--
4	PHOSPHORUS	Root	470.0	7900.0	0.7700033948467552	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Pt	201.0	6849.0	1.363371911682067	--
4	LYSINE	Pt	260.0	5410.0		USDA's Ag Handbook 8 and sequelae)
4	BORON	Seed	43.0	61.0	1.7498078343361594	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).
4	SILICON	Fruit	1.0	4.5	-0.5938225414098025	--
4	BORON	Root	4.0	103.0	2.919010239761024	--
4	APIIN	Plant		2000.0		--
4	PUFA	Pt	690.0	12875.0		USDA's Ag Handbook 8 and sequelae)
4	ISOCHLOROGENIC-ACID	Leaf				--
4	SILICON	Root		2.0	-0.33371737669722845	ACTA AGRIC SCAND SUPPL 22: 1980
4	NERAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	APIIN	Seed				--
3	CIS-OCIMENE	Stem Essent. Oil		78000.0		--
3	GAMMA-DECALACTONE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
3	BETA-PHELLANDRENE	Seed Essent. Oil	200.0	2000.0	-1.027685692005648	--
3	MUCILAGE	Plant				Pakistan Encyclopedia Planta Medica. 1986.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	SESELIN	Seed				--
3	ALPHA-CEDRENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
3	BETA-PHELLANDRENE	Fruit		2000.0	-0.1272127645580522	--
3	ALPHA-SELINENE	Seed	95.0	250.0		--
3	FALCARINONE	Root		1.7	-1.0	--
3	CAPRIC-ACID	Leaf	200.0	213.0	-1.0	USDA's Ag Handbook 8 and sequelae)
3	SCOPOLIN	Leaf				--
3	HEXANOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ALPHA-SELINENE	Seed Essent. Oil		20500.0		--
3	ISOLEUCINE	Pt	200.0	4290.0		USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Root	0.04	0.9	-0.6636456003542591	ACTA AGRIC SCAND SUPPL 22: 1980
3	ALANINE	Pt	220.0	4665.0		USDA's Ag Handbook 8 and sequelae)
3	ISOAMYL-ALCOHOL	Shoot				--
3	VALINE	Pt	260.0	5600.0		USDA's Ag Handbook 8 and sequelae)
3	ISOAMYL-ALCOHOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	CIS-OCIMENE	Leaf	2000.0	2500.0	1.4135514162255571	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ASPARTIC-ACID	Shoot				--
3	BETA-SELINENE	Seed	100.0	9750.0	1.0	--
3	SEDANOLIDE	Seed Essent. Oil				--
3	GERANYL-BUTYRATE	Leaf				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
3	CIS-OCIMENE	Et		78000.0		--
3	BETA-SELINENE	Seed Essent. Oil	55000.0	325000.0		--
3	XYLOSE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
3	BETA-SELINENE	Stem Essent. Oil		10000.0		--
3	SEDANOLIDE	Essential Oil				--
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	CIS-OCIMENE	Root Essent. Oil		68000.0		--
3	CADMIUM	Root	0.001	0.364	-0.49785433960777487	ACTA AGRIC SCAND SUPPL 22: 1980
3	BETA-SELINENE	Leaf Essent. Oil		30000.0	1.0	--
3	VALINE	Shoot				--
3	ASPARTIC-ACID	Pt	1130.0	23880.0		USDA's Ag Handbook 8 and sequelae)
3	SEDANOLIDE	Seed	435.0	900.0		--
3	CIS-OCIMENE	Leaf Essent. Oil		145000.0		--
3	BETA-SELINENE	Fruit Essent. Oil	55000.0	325000.0	1.0	--
2	ASPARAGINE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ARSENIC	Root	0.01	0.09	-0.2036587057933666	ACTA AGRIC SCAND SUPPL 22: 1980
2	CAMPESTEROL	Pt				Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	PHYTOSTEROLS	Pt	60.0	1120.0		--
2	DIMETHYL-AMINE	Pt		5.1		--
2	PHELLOPTERIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Seed	20.0	33.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
2	QUERCETIN-3-O-GALACTOSIDE	Plant				Jim Duke's personal files.
2	ALPHA-HUMULENE	Leaf	266.0	2500.0	3.7785413446723948	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ISOBUTYRIC-ACID	Shoot				--
2	PALMITOLEIC-ACID	Pt	10.0	190.0		USDA's Ag Handbook 8 and sequelae)
2	HUMULENE	Seed Essent. Oil				--
2	CYSTINE	Pt	40.0	755.0		USDA's Ag Handbook 8 and sequelae)
2	ELEMOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
2	MOLYBDENUM	Root		0.1	-0.46089530570591497	ACTA AGRIC SCAND SUPPL 22: 1980
2	PROPIONALDEHYDE	Leaf	3.0	1050.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	HUMULENE	Leaf Essent. Oil				--
2	DIHYDROCARVEOL	Seed Essent. Oil		1000.0		--
2	ALPHA-SANTALOL	Seed				--
2	MYRTENOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
2	7-[3-(3,4-DIHYDROXY-4-HYDROXYMETHYL-TETRAHYDRO-FURAN-2-YLOXY)-4,5-DIHYDROXY-6-HYDROXYMETHYL-TETRAHYDRO-PYRAN-2-YLOXY]...	Seed				--
2	DIMETHYL-AMINE	Stem		5.1		--
2	TERPINEOL-ACETATE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	DIHYDROCARVEOL	Essential Oil				--
2	PHYTOSTEROLS	Seed		600.0	-0.4861647488503628	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	ZEATIN	Seed				--
2	PROPIONALDEHYDE	Shoot				--
2	METHYL-PHTHALIDES	Seed				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
2	SANTALOL	Seed	874.0	1150.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	Z-LIGUSTILIDE	Plant	1.0	5.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	LEUCINE	Pt	310.0	6530.0		USDA's Ag Handbook 8 and sequelae)
2	DIHYDROCARVEOL	Leaf				--
2	COBALT	Seed	0.4	2.0	-0.11920111863142302	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	DIHYDROCARVEOL	Fruit Essent. Oil		2000.0	1.0	--
2	COBALT	Root		0.005	-0.5451001113256595	ACTA AGRIC SCAND SUPPL 22: 1980
2	DIACETYL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	COBALT	Fruit	0.4	2.0	-0.29299669899909336	--
2	ISOBUTYRIC-ACID	Plant				--
2	UNDECANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	CITRONELLYL-ACETATE	Leaf				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
2	CAMPESTEROL	Seed		50.0	-0.5188689275444304	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
2	DIACETYL	Shoot				--
2	NEOCNIDOLIDE	Root		17.0		--
2	ISOBUTYRIC-ACID	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	DODECANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	TRANS-CARVEOL	Essential Oil				--
1	PYRROLIDINE	Stem		0.4		--
1	ISOVALERIC-ACID-ETHYL-ESTER	Plant				--
1	DECYL-ACETATE	Shoot				--
1	SENKYUNOLIDE-J	Seed				--
1	DECYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ISOVALERIC-ACID-ETHYL-ESTER	Shoot				--
1	ANGELIC-ACID	Plant				--
1	SEDANENOLIDE	Seed Essent. Oil				--
1	QUINIC-ACID	Pt				--
1	CARVEOL	Plant				--
1	URANIUM	Root		0.09	-1.0	--
1	SERINE	Shoot				--
1	SEDANENOLIDE	Seed	90.0	900.0		--
1	TRANS-CARVEOL	Fruit Essent. Oil		1000.0	1.0	--
1	DIHYDROCARVYL-ACETATE	Plant				--
1	GALACTOSE	Plant				Pakistan Encyclopedia Planta Medica. 1986.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	METHYL-AMINE	Pt		6.4		--
1	SERINE	Pt	200.0	4105.0		USDA's Ag Handbook 8 and sequelae)
1	METHYL-AMINE	Stem		6.4		--
1	SODIUM	Fruit	445.0	2120.0	0.01708643261806833	--
1	SODIUM	Seed	445.0	2120.0	2.6496100162265814	--
1	PYRUVIC-ACID	Plant				--
1	SODIUM	Pt	774.0	17135.0	1.413860124765121	--
1	MERCURY	Root	0.0	0.027	-0.41503552911844144	ACTA AGRIC SCAND SUPPL 22: 1980
1	N-BUTYLPHTHALIDE	Seed Essent. Oil	25600.0	72000.0		--
1	TRANS-2-HEXENOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	PYRROLIDINE	Pt		2.6		--
1	MALONIC-ACID	Root				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	CIS-3-HEXENOL	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	N-BUTYLPHTHALIDE	Seed	190.0	1800.0		--
1	P-HYDROXYCINNAMIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
1	QUINIC-ACID	Root				--
1	SENKYUNOLIDE-N	Seed				--
1	N-BUTYLPHTHALIDE	Root		30.0		--
1	TIGLIC-ACID	Plant				--
1	TRANS-CARVEOL	Seed Essent. Oil		1000.0		--
1	PYRUVIC-ACID	Shoot				--
1	NODAKENIN	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	N-BUTYLPHTHALIDE	Fruit Essent. Oil	50000.0	72000.0		--
0	SUCCINIC-ACID-DEHYDROGENASE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	GAMMA-TERPINEOL	Seed	57.0	125.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CAROTENES	Leaf	80.0	145.0	-1.0	--
0	DEHYDROASCORBIC-ACID	Plant				--
0	BETA-CARYOPHYLLENE	Fruit Essent. Oil	5000.0	43000.0	-0.3340654939269333	--
0	GAMMA-SELINENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	HEPTAN-1-OL	Shoot				--
0	N-METHYL-BETA-PHENETHYLAMINE	Stem		0.5		--
0	N-VALERIC-ACID	Shoot				--
0	(E)-BETA-OCIMENE	Seed	7.0	10.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-BUTYLHEXAHYDROPHTHALIDE	Root				--
0	NEOCNIDILIDE	Plant	70.0	260.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SEDANOIC-ANHYDRIDE	Essential Oil	30000.0	80000.0		--
0	ISOBUTYLIDENE-3-A,4-DIHYDROPHTHALIDE	Et		21000.0		--
0	TRANS-FARNESENE	Essential Oil				--
0	CIS-LIMONENE-OXIDE	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NODAKENETIC	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SESALIN	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-6-ISOPENT-2-ENYL-ADENOSINE	Seed				--
0	RUBIDIUM	Root	0.24	9.0	-0.5466190454002584	ACTA AGRIC SCAND SUPPL 22: 1980
0	WATER	Seed	60400.0	790000.0	2.1581361526774154	--
0	GRAVEOBIOSIDE-A	Seed				--
0	ANILINE	Pt		0.7		--
0	P-MENTHA-2,8-DIEN-1-OL	Seed Essent. Oil				--
0	SEDANOIC-ACID	Essential Oil				--
0	PENTENYLBENZENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-METHYL-ANILINE	Stem		0.5		--
0	3-ISOVALIDENE-PHTHALIDE	Shoot		0.001		--
0	PROTEIN	Seed	170250.0	203385.0	-0.27052219485106055	USDA's Ag Handbook 8 and sequelae)
0	GAMMA-TERPINEOL	Fruit Essent. Oil	3000.0	5000.0		--
0	CARBOHYDRATES	Seed	413500.0	439964.0	-0.33160060847415757	USDA's Ag Handbook 8 and sequelae)
0	DIHYDRONEOCARVEOL	Seed Essent. Oil		1000.0		--
0	LINOLENIC-ACID	Seed		2000.0	-0.5449471099877773	--
0	3-N-BUTYL-4,5-DIHYDROPHTHALIDE	Seed				--
0	SEDANOIC-ACID	Seed	100.0	150.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	HEPTAN-1-AL	Shoot				--
0	C-PRENYL-COUMARINS	Seed				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	P-CYMOL	Leaf Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(E)-8(9)-P-MENTHEN-1,2-DIOL?	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	CIS-LIGUSTILIDE	Root				--
0	N-PROPYL-AMINE	Pt		2.7		--
0	SEDANOIC-ALDEHYDE	Plant				--
0	TRANS-DIHYROCARVONE	Fruit Essent. Oil		14000.0		--
0	INDOSTEROL	Pt		300.0		--
0	CIS-DIHYDROCARVONE	Seed		1.0	-0.711177031842887	--
0	FAT	Seed	13860.0	279483.0	0.0742455598506243	--
0	N-6-BENZYL-ADENINE-RIBOSIDE	Seed				--
0	WATER	Root		890000.0	0.7903730976697912	ACTA AGRIC SCAND SUPPL 22: 1980
0	CHOLINE-ASCORBATE	Leaf				--
0	DIHYDRONEOISOCARVEOL	Fruit Essent. Oil		2000.0		--
0	WATER	Fruit		790000.0	0.08445851562289378	--
0	P-MENTH-8(9)-ENE-1,2-DIOL	Seed Essent. Oil				--
0	8-HYDROXYFALCARINONE	Root		8.3		--
0	MANNOSE-6-PHOSPHATE-REDUCTASE	Leaf				--
0	HYPOXANTHINE	Shoot				--
0	3-ISOBUTYLIDENE-PHTHALIDE	Seed Essent. Oil				--
0	CHRYSOERIOL-GLUCOSIDE	Plant				--
0	GAMMA-SELINENE	Plant				--
0	CARBOHYDRATES	Pt	36300.0	684980.0	-0.4019274925269096	--
0	D-SELINENE	Seed	1900.0	4500.0		--
0	DIHYDRONEOISOCARVEOL	Seed Essent. Oil		2000.0		--
0	LINALOOL-ACETATE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRIMETHYL-PSORALEN	Plant				--
0	FENCHOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-METHYL-4-ETHYL-HEXANE	Root Essent. Oil		124000.0		--
0	RESINIC-ACID	Seed	16800.0	19600.0	1.0	Wealth of India.
0	UNDECAN-1-AL	Shoot				--
0	PROTEIN	Pt	6030.0	194000.0	1.322882538071928	--
0	ARABINOSE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	VERBENOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ASH	Fruit	6720.0	32000.0	-0.6386766393183354	--
0	N-PENTYL-CYCLOHEXADIENE	Leaf Essent. Oil		17000.0		--
0	SEDANOIC-ACID	Plant				--
0	TRANS-CARVYL-ACETATE	Plant		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HYPOXANTHINE	Plant				--
0	CIS-DIHYDRO-ISOCARVONE	Fruit Essent. Oil		15000.0		--
0	FAT	Leaf	1300.0	42000.0	-0.28818340493506195	--
0	N-6-BENZYL-ADENINE	Seed				--
0	LINASE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	WATER	Pt	927000.0	947000.0	1.0	USDA's Ag Handbook 8 and sequelae)
0	DIHYDRONEOCARVEOL	Fruit Essent. Oil		1000.0		--
0	THIAMINE	Fruit	0.3	1.2	-1.081392271586632	--
0	EPOXYCARYOPHYLLENE	Seed Essent. Oil		5500.0		--
0	(-)-MARMESIN	Seed		12.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-PENTYL-CYCLOHEXADIENE	Seed	55.0	510.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	8-HYDROXY-5-METHOXY-PSORALEN	Seed		375.0		--
0	FLAVONOIDS	Leaf		420.0	-0.9474235611430815	--
0	5-ALPHA-ANDROST-16-EN-3-ONE	Shoot		0.009		--
0	3-ISOBUTYLIDENE-PHTHALIDE	Shoot		0.001		--
0	P-COUMAROYL-QUINIC-ACID	Leaf				--
0	GALACTURONIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	CAR-3-ENE	Essential Oil				--
0	DIHYDRO-ISOCARVEOL	Seed Essent. Oil		2000.0		--
0	3-ISOVALIDENE-PHTHALIDE	Plant		0.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PINOCARVYL-ACETATE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	TRANS-P-MENTHA-2,8-DIEN-1-OL	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	APIUMOSIDE	Seed		125.0		--
0	TETRAHYDROPHTHALIDE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALPHA-EUDESOL	Seed	76.0	225.0		--
0	6,10,14-TRIMETHYL-2-PENTADECANONE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-PENTYL-CYCLOHEXADIENE	Fruit Essent. Oil		3000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-CARVYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BUTYLIDENE-NAPHTHALIDE	Essential Oil				--
0	QUERCETIN-3-O-BETA-GLUCOSIDE	Plant				Stitt, Paul. Why George should eat broccoli.
0	VIT-U	Pt	41.0	96.0		--
0	BETA-HUMULENE	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SUGARS	Fruit	14700.0	70000.0	-0.5952549612598248	--
0	BETA-CARYOPHYLLENE	Seed Essent. Oil	5000.0	43000.0	-1.0	--
0	N-HEXYLCYCLOHEXADIENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	BIACETYL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-PENTYL-AMINE	Stem		0.8		--
0	ISOBUTYLIDENE-3-A,4-DIHYDROPHthalIDE	Stem Essent. Oil		21000.0		--
0	SPINOSTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	ASH	Seed	6720.0	106294.0	1.7569512588202132	--
0	FURANOCOUMARINS	Pt	0.86	2.86		--
0	TRANS-BETA-OCIMENE	Seed Essent. Oil				--
0	TERPINEOL-PROPIONATE	Shoot				--
0	(+)-LIMONENE	Shoot				--
0	(E)-ALPHA-BERGAMOTENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-ISovalidene-3A,4-DIHYDROPHthalIDE	Leaf		0.003		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROPIONIC-ALDEHYDE	Plant				--
0	PETROSELINIC-ACID	Seed Oil				--
0	TOLUIDINE	Stem		1.1		--
0	NITROGEN	Root	2000.0	19090.0	-1.1232374468782391	ACTA AGRIC SCAND SUPPL 22: 1980
0	PROLINE	Leaf	170.0	3208.0	-1.1640243366273353	USDA's Ag Handbook 8 and sequelae)
0	TRANS-P-MENTHA-1(7),8-DIEN-2-OL	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOBUTYLIDENE-3-A,4-DIHYDROPHthalIDE	Leaf Essent. Oil		40000.0		--
0	ALLOOCIMENE-II	Leaf Essent. Oil		1000.0		--
0	3-N-BUTYLHEXAHYDROPHthalIDE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-PENTYL-BENZENE	Seed	190.0	300.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ZEATIN-RIBOSIDE	Seed				--
0	CIS-CARVEOL	Fruit Essent. Oil		1000.0	1.0	--
0	BROMINE	Root		1.0	-1.1020868276694642	ACTA AGRIC SCAND SUPPL 22: 1980
0	APIUMETRIN	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SUGARS	Seed	14700.0	70000.0	0.3785467314953305	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	LINALOL	Seed		1.0	-0.7142013588154137	--
0	QUERCETIN-3-O-GALACTOSIDE	Plant				--
0	VIT-B-6	Leaf	0.0	6.0	-0.8911253731457488	USDA's Ag Handbook 8 and sequelae)
0	TERPINEOLENE	Root Essent. Oil		33000.0		--
0	CELEROSIDE	Seed				--
0	DIHYDROCARVONE	Seed	0.0	150.0	-1.2270843709635864	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEXAN-1-OL	Shoot				--
0	ISOBUTYLIDENE-3-A,4-DIHYDROPHthalIDE	Seed Essent. Oil		17000.0		--
0	BENZYL-AMINE	Stem		3.4		--
0	ASH	Root	8300.0	100000.0	0.9263745562711385	ACTA AGRIC SCAND SUPPL 22: 1980
0	FURANOCOUMARINS	Leaf	1.4	2.3	-1.0000000000000002	--
0	EUDESMOL	Seed Essent. Oil	2900.0	10000.0		--
0	CIS-BETA-OCIMENE	Seed Essent. Oil				--
0	FAT	Fruit	13860.0	66000.0	-0.1371493986322384	--
0	(+)-LIMONENE	Seed				--
0	PROTEIN	Leaf	7000.0	29000.0	-1.824056037172258	--
0	DIPENTENE-OXIDE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-ISovalidene-3A,4-DIHYDROPHthalIDE	Essential Oil		255.0		--
0	SENKYUNOLIDE	Root	30.0	240.0	1.0	--
0	TRANS-OCIMENE	Leaf				--
0	ISOBUTYLIDENE-3-A,4-DIHYDROPHthalIDE	Fruit Essent. Oil		17000.0		--
0	CIS-P-MENTHA-2,8-DIEN-1-OL	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALLOOCIMENE-I	Leaf Essent. Oil		1000.0		--
0	3,7,11-TRIMETHYL-1,2,6,10-DODECATRIENOL?	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-PENTYL-AMINE	Pt		0.8		--
0	PETROSELINIC-ACID	Seed	2400.0	657000.0	0.49703736353975286	--
0	TRANS-3-HEXENOL	Essential Oil				--
0	CIS-3-HEXENYL-ACETATE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	APIUMETIN	Seed		13.0		--
0	N-PENTYL-CYCLOHEXADIENE	Seed Essent. Oil		3000.0		--
0	S-METHYL-METHIONINE	Stem		96.0		--
0	(+)-SELINENE	Essential Oil				--
0	VELLEIN	Seed				--
0	GLUCOSIDASE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	CELERIN	Seed				--
0	DIHYDROCARVONE	Essential Oil	0.0	5000.0	-0.5088490622892315	--
0	ALPHA-TERPINYL-PROPIONATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-DIHYDROCARVONE	Seed Essent. Oil		14000.0		--
0	5-METHOXY-8-O-BETA-D-GLUCOSYL-OXYPSORALEN	Seed		2.9		--
0	ASPARAGINE(FREE)	Seed				Wealth of India.
0	HEXAN-1-OL	Essential Oil				--
0	3-ISOVALIDENE-3A,4-DIHYDROPHthalide	Seed Essent. Oil		255.0		--
0	OSTHENOL	Seed				--
0	BENZOYL-BENZOATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ASH	Pt	6000.0	219000.0	1.0411508948922918	--
0	FARCARINOL	Root	200.0	1400.0		--
0	NH3	Pt		15480.0		--
0	FIBER(DIETARY)	Fruit		320000.0	-0.9715942860730087	--
0	CIS-CARVEOL	Seed Essent. Oil		1000.0		--
0	(+)-LIMONENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELTA-SELINENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-ISOVALERIDENE-PHTHALIDE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	GERANIOL-BUTYRATE	Shoot				--
0	TRANS-OCIMENE	Et		67000.0		--
0	ISOBUTYLIDENE	Leaf		32.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-P-MENTHA-1(7),8-DIEN-2-YL-ACETATE	Plant				--
0	PENTYL-BENZENE	Seed Essent. Oil	200.0	9000.0		--
0	1-P-MENTHENE-9-AL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-METHYL-PHENETHYLAMINE	Pt		0.5		--
0	LUTEOLIN-GLYCOSIDE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	PEROXIDASE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	HEPTANOL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-3-HEXENOL-PYRUVATE	Plant				--
0	EUDESMOL	Fruit Essent. Oil	5000.0	10000.0		--
0	5,6,7-TRIMETHYLPSORALEN	Pt				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	COLUMBIANETIN	Stem				--
0	SEDANONIC-ALDEHYDE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SEDANONIC-ANHYDRIDE	Seed Essent. Oil	30000.0	80000.0		--
0	P-MENTHA-8(9)-EN-1,2-DIOL	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CELEREOSIDE	Seed				--
0	ALPHA-TERPINYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DIHYDROCARVONE	Seed Essent. Oil		5000.0		--
0	METHYL-PHENYLKETONE	Seed	55.0	90.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	5-ALPHA-ANDROST-16-EN-3-ONE	Plant		0.009		--
0	GLUTAMIC-ACID(FREE)	Seed				Wealth of India.
0	XANTHOTOXIN	Leaf	0.4	1.0		--
0	HEXAN-1-AL	Shoot				--
0	3-ISOVALIDENE-3A,4-DIHYDROPHthalIDE	Shoot		0.003		--
0	BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE	Seed		56.0	1.0	--
0	DELTA-7,8-OCTADECANOIC-ACID	Seed				Wealth of India.
0	NH3	Stem		19600.0		--
0	FIBER(CRUDE)	Fruit		171000.0	0.39638478898989327	--
0	CIS-CARVEOL	Essential Oil				--
0	(+)-LIMONENE	Seed Essent. Oil		988000.0	1.4139579998472263	--
0	3-ISOVALERIDENE-3A,4-DIHYDROPHthalIDE	Leaf				--
0	GERANIOL-ACETATE	Shoot				--
0	SELANOLIDE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	ISOCITRIC-ACID	Root				--
0	TRANS-OCIMENE	Root Essent. Oil		201000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BUTYLPHENYL-KETONE	Seed	38.0	60.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	1,4-DIMETHYL-7-(1-METHYLETHENYL)-OCTAHYDRO-AZULENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	N-METHYL-ANILINE	Pt		7.0		--
0	Z-BUTYLIDENEPHTHALIDE	Plant				--
0	TRANS-1,2-EPOXYLIMONENE	Seed		1.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEPTANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Seed	4200.0	30000.0	-0.17124289278893168	--
0	COUMARINS	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	NEOCNIDILIDE	Root		17.0		--
0	P-MENTHA-TRANS-2-8-DIEN-1-OL	Essential Oil				--
0	LEAD	Root	0.01	2.0	-0.18815782621314692	ACTA AGRIC SCAND SUPPL 22: 1980
0	P-MENTH-8(9)-ENE-1,2-DIOL	Essential Oil				--
0	CELEREOIN	Seed		13.3		--
0	METHYL-BUTYLBENZENE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	4-DIHYDROPHTHALIDE	Seed	57.0	1500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	L-TRYPTOPHAN	Seed				--
0	HEX-TRANS-3-EN-1-OL	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-ISOBUTYLIDENE-3-(A)-4-DIHYDROPHthalide	Seed Essent. Oil	727.0	10000.0		--
0	VITAMIN-K-1	Seed				--
0	FOLIACIN	Pt	0.3	5.6		USDA's Ag Handbook 8 and sequela)
0	BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE	Root		3.0	-1.0	--
0	DELTA-6,7-OCTADECANOIC-ACID	Seed				Wealth of India.
0	DODECAN-1-AL	Shoot				--
0	AMMONIA	Pt		15480.0		--
0	EO	Fruit	42000.0	200000.0	3.067440392195637	--
0	CARVEOL-ACETATE	Shoot				--
0	3-ISOBUTYLIDENE-PHTHALIDE	Plant		0.001		--
0	GERANIOL-ACETATE	Seed Essent. Oil		400.0	-1.0530439054012875	--
0	OCTAN-1-AL	Shoot				--
0	SEDANONIC-ANHYDRIDE	Leaf	570.0	15750.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	POLYACETYLENES	Root				--
0	TRANS-OCIMENE	Leaf Essent. Oil		20000.0		--
0	DEHYDROASCORBIC-ACID	Shoot				--
0	1(7),8(10)-P-MENTHADIEN-2-OL?	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	LUTEOLIN-7-APIOSYL-GLUCOSIDE	Fruit				--
0	S-METHYL-METHIONINE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	PENTYL-BENZENE	Leaf Essent. Oil		2000.0		--
0	TOLUIDINE	Pt		1.1		--
0	CIS-3-HEXEN-1-YL-PYRUVATE	Leaf				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	E-LIGUSTILIDE	Plant		1.0		--
0	APIGRAVIN	Seed				--
0	CIS-DIHYDRO-ISOCARVONE	Seed Essent. Oil		15000.0		--
0	CITRONELLOL-ACETATE	Shoot				--
0	P-MENTHA-TRANS-1(7)-8-DIEN-2-OL	Essential Oil				--
0	URONIC-ACID	Root				--
0	CARVYL-ACETATE	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-CARYOPHYLLENE	Seed	55.0	1290.0	0.859268747623255	--
0	PROTEIN	Fruit	35490.0	169000.0	0.7976429450050274	--
0	LUTEOLIN-7-APIOSYL-GLUCOSIDE	Seed				--
0	HUMULENE-OXIDE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	HEX-CIS-3-EN-1-OL-PYRUVATE	Shoot				--
0	3-ISOBUTYLIDENE-3-(A)-4-DIHYDROPHthalIDE	Shoot		0.7		--
0	VITAMIN-A-PALMITATE	Seed				--
0	BENTONITE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	COUMARIN-GLYCOSIDES	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	AMMONIA	Stem		19600.0		--
0	TERPINENE	Seed Essent. Oil				--
0	3-ISOBUTYLIDENE-3-A,4-DIHYDROPHthalIDE	Seed	133.0	1500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ISOVALERIANIC-ALDEHYDE	Plant				--
0	TRANS-OCIMENE	Stem Essent. Oil		67000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-TERPINEOL	Seed Essent. Oil		5000.0		--
0	SEDANOLINE	Plant				--
0	TRANS-OCIMENE	Fruit Essent. Oil		3000.0		--
0	OCTANAL	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PENTYL-BENZENE	Fruit Essent. Oil		9000.0		--
0	CIS-1(7),8-DIEN-2-OL	Plant				--
0	E-BUTYLIDENEPHTHALIDE	Plant				--
0	APIGENIN-7-BETA-APIOSYL-GLUCOSIDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	P-MENTHA-CIS-2-8-DIEN-1-OL	Essential Oil				--
0	SEDANOLIC-ACID	Essential Oil				--
0	PINOCARVEOL	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	INDOSTEROL	Stem		300.0		--
0	PHTHALIDES	Plant				--
0	KETO-ALCOHOL	Seed	2140.0	3390.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CARVEOL-ACETATE	Plant				--
0	DI-N-PROPYL-AMINE	Pt		0.9		--
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil		5000.0	-0.3762214301968018	--
0	LUTEOLIN-GLUCOSIDE	Seed				--
0	HUMULADIENONE	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	SEDANONIC-ANHYDRIDE	Seed	95.0	150.0		Wealth of India.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEX-CIS-3-EN-1-OL	Essential Oil				--
0	N-METHYL-PHENETHYLAMINE	Stem		0.5		--
0	ARSENIC-OXIDE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	NEROL-ACETATE	Shoot				--
0	(Z)-BETA-OCIMENE	Seed	6.0	9.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALPHA-P-DIMETHYL-STYRENE	Seed	170.0	270.0	1.392044546138226	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CAR-3-ENE	Seed Essent. Oil				--
0	3-BUTYLPHTHALIDE	Seed	40.0	120.0		--
0	TRANS-OCIMENE	Seed Essent. Oil		3000.0		--
0	PINOCARVYL-ACETATE	Plant				--
0	TRANS-LIMONENE-OXIDE	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SFA	Pt	370.0	6900.0		USDA's Ag Handbook 8 and sequelae)
0	BUTYLPHENYL-KETONE	Plant				--
0	RUTARETIN	Seed		10.0		--
0	PENTOSANE	Root		1600.0	-1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GRAVEOBIOSIDE-B	Seed				--
0	CHRYSOEROL-7-APIOSYL-GLUCOSIDE	Seed				--
0	P-MENTHA-CIS-1(7)-8-DIEN-2-OL	Essential Oil				--
0	SEDANOIC-ANHYDRIDE	Seed Essent. Oil	79000.0	80000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PENTYL-BENZENE	Seed	170.0	270.0		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	APIGENIN-7-APIOSYLGLUCOSIDE	Seed				--
0	3-ISOVALIDENE-PHTHALIDE	Seed Essent. Oil				--
0	LUTEOLIN-7-O-APIOSYL-GLUCOSIDE	Plant				--