

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Origanum majorana*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-CAR-3-ENE	Essential Oil				--
0	(+)-CARAN-TRANS-4-OL	Essential Oil				--
0	(+)-MENTHA-1,8-DIENE	Essential Oil				--
0	1,8-CINEOL	Essential Oil				--
0	1,8-CINEOL	Leaf Essent. Oil		75000.0	-0.39968922610284335	--
0	1-ETHOXY-2-P-MENTHENE	Essential Oil		7000.0		--
0	1-ETHOXY-P-MENTH-2-ENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	3-BETA-HYDROXYURS-12-EN-28-OIC-ACID-3-O-BETA-D-GLUCOPYRANOSYL-(1->4)-O-BETA-D-XYLOPYRANOSIDE	Stem		13000.0		--
0	4-ETHOXY-P-MENTH-1-ENE	Plant				--
0	ALLO-AROMADENDRENE	Essential Oil				--
0	ALLO-AROMADENDRENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-COPAENE	Essential Oil				--
0	ALPHA-COPAENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-ELEMENE	Essential Oil				--
2	ALPHA-HUMULENE	Essential Oil				--
2	ALPHA-HUMULENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-HYDROXYDIHYDROCAFFEIC-ACID	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	ALPHA-PHELLANDRENE	Essential Oil		26000.0	-0.08979419499208481	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ALPHA-PHELLANDRENE	Plant	18.0	103.0	-0.4516907541435066	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Essential Oil		19000.0	-0.39287982164920143	--
28	ALPHA-PINENE	Plant	15.0	86.0	-0.42061428285892105	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Leaf	138.0	1620.0	0.5247481960598754	--
13	ALPHA-TERPINENE	Essential Oil		68000.0	1.1298113026643404	--
13	ALPHA-TERPINENE	Leaf Essent. Oil		20000.0	0.9980633895203395	--
13	ALPHA-TERPINENE	Plant	183.0	1830.0	2.256141022146814	--
23	ALPHA-TERPINEOL	Essential Oil		7000.0	-0.4630448703246903	--
23	ALPHA-TERPINEOL	Leaf Essent. Oil		49000.0	0.12538106410891894	--
0	ALPHA-TERPINYL-ACETATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-TERPINYL-ACETATE	Essential Oil				--
0	ALPHA-THUJENE	Plant	15.0	1100.0	0.10728911049715678	--
0	ALPHA-THUJENE	Essential Oil		19000.0	-0.27796616080745823	--
36	ANETHOLE	Essential Oil				--
0	APIGENIN-7-GLUCOSIDE	Plant				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	ARBUTIN	Shoot				--
15	ARBUTIN	Leaf				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
112	ASCORBIC-ACID	Plant	514.0	555.0	-0.4633944303261279	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASH	Plant	96900.0	123300.0	0.0413244786252859	--
53	BETA-CAROTENE	Plant	48.0	52.0	-0.44555296413975976	USDA's Ag Handbook 8 and sequelae)
0	BETA-CARYOPHYLLENE	Plant	35.0	750.0	0.12906156273708783	--
0	BETA-FARNESENE	Essential Oil				--
0	BETA-FARNESENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	BETA-PHELLANDRENE	Essential Oil		14000.0	0.06102018933373759	--
3	BETA-PHELLANDRENE	Plant	27.0	155.0	0.6528644248365976	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Essential Oil		4000.0	-0.6415683948649324	--
13	BETA-PINENE	Plant	6.0	34.0	-0.3987756455135756	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
47	BETA-SITOSTEROL	Plant	520.0	540.0	-0.002824127733764179	--
0	BICYCLOGERMACRENE	Plant	12.0	69.0	-0.6425880627184439	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BICYCLOGERMACRENE	Essential Oil		27000.0	1.0	--
35	BORNEOL	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	BORON	Plant	28.0	48.0	-0.3285060001497114	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	CADINENE	Plant				--
102	CAFFEIC-ACID	Shoot				--
102	CAFFEIC-ACID	Plant				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
102	CAFFEIC-ACID	Leaf		14100.0	1.2401706840629567	--
28	CALCIUM	Plant	17925.0	23625.0	1.073474951470644	USDA's Ag Handbook 8 and sequelae)
2	CAMPESTEROL	Plant		30.0	-0.5969128791852656	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	CARBOHYDRATES	Plant	605600.0	654050.0	-0.11813185716958748	USDA's Ag Handbook 8 and sequelae)
37	CARVACROL	Plant	1092.0	10920.0	0.6439962127754266	--
37	CARVACROL	Essential Oil	388800.0	795000.0	1.956448823344398	--
19	CARVONE	Plant	12.0	69.0	-0.42182429771324575	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
19	CARVONE	Essential Oil		27000.0	-0.7525161257485199	--
31	CARYOPHYLLENE	Plant	52.0	1307.0	1.1553486678162894	--
31	CARYOPHYLLENE	Essential Oil		61000.0	0.37737527199565624	--
3	CHAVICOL	Plant	138.0	791.0	1.414213562373095	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
77	CHLOROGENIC-ACID	Shoot				--
0	CIS-3-ETHOXY-1-P-MENTHENE	Essential Oil		2000.0		--
0	CIS-3-ETHOXY-P-MENTH-1-ENE	Plant				--
0	CIS-4-ETHOXY-THUJANE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-4-ETHOXY-THUJANE	Essential Oil		52000.0		--
0	CIS-P-MENTH-2-EN-1-OL	Plant	60.0	344.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-P-MENTH-2-ENOL	Leaf Essent. Oil		30000.0		--
0	CIS-PIPERITOL	Essential Oil		0.0	-1.0	--
0	CIS-SABINENE-HYDRATE	Leaf	100.0	7965.0	3.162122330899287	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-SABINENE-HYDRATE	Essential Oil		75000.0	1.0	--
0	CIS-SABINENE-HYDRATE	Leaf Essent. Oil	20000.0	580000.0		--
0	CIS-SABINENE-HYDRATE-ACETATE	Leaf Essent. Oil		110000.0		--
0	CIS-SABINENE-HYDRATE-METHYL-ETHER	Leaf Essent. Oil		20000.0		--
0	CIS-Z-P-MENTHEN-1-OL	Essential Oil		2000.0		--
53	CITRAL	Plant				--
12	COPPER	Plant		11.0	-0.33406963620245544	USDA's Ag Handbook 8 and sequela)
4	COSMOSIIN	Shoot				--
4	COSMOSIIN	Pollen Or Spore				--
3	CYNAROSIDE	Shoot				--
0	D-ALPHA-TERPINEOL	Plant	27.0	826.0	1.0	--
0	D-LINALOL	Plant	918.0	5263.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	D-LINALOOL	Plant	918.0	5263.0	1.3717619314396152	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	DELTA-3-CARENE	Plant				--
0	DINATIN-7-GLUCOSIDE	Leaf				--
13	DIOSMETIN	Shoot				--
0	DIOSMETIN-7-GLUCOSIDE	Leaf				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	DIOSMETIN-7-GLUCURONIDE	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	DIOSMETIN-7-O-BETA-GLUCURONIDE	Pollen Or Spore				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Plant	3000.0	30000.0	1.539818214457512	--
0	EO	Essential Oil				--
12	ESTRAGOLE	Plant				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	ETHYL-CAPRATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-CAPRATE	Essential Oil		61000.0		--
1	ETHYL-LAURATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-LINILENATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-LINOLEATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-MYRISTATE	Essential Oil				--
1	ETHYL-MYRISTATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-OLEATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ETHYL-PALMITATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-STEARATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ETHYL-TRANS-HEXADECENOATE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ETHYL-TRANSHEXADECANOATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
76	EUGENOL	Plant	200.0	2000.0	0.46992531158530604	--
76	EUGENOL	Leaf Essent. Oil		255000.0	-0.34777061356900674	--
0	FAT	Plant	8000.0	77950.0	0.3824473420028041	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Plant	170170.0	220600.0	-0.016312721496673874	--
0	FIXED-OIL	Seed				--
0	GAMMA-ELEMENE	Essential Oil				--
0	GAMMA-ELEMENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Essential Oil	48000.0	213000.0	2.0863713351738005	--
11	GAMMA-TERPINENE	Leaf Essent. Oil		180000.0	1.627787588377096	--
11	GAMMA-TERPINENE	Leaf	210.0	2370.0	4.197708389548963	--
35	GERANIOL	Essential Oil		0.0	-0.677218689998221	--
35	GERANIOL	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	GERANIOL-ACETATE	Essential Oil		27000.0		--
5	GERANYL-ACETATE	Plant	12.0	120.0	-0.4229146637825368	--
32	HYDROQUINONE	Plant				--
32	HYDROQUINONE	Shoot				--
0	HYDROQUINONE-MONOMETHYL-ETHER	Shoot				--
6	IRON	Plant	750.0	975.0	0.4098917877276588	USDA's Ag Handbook 8 and sequelae)
1	LABIATIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	LAURIC-ACID-ETHYL-ESTER	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LEDENE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LEDENE	Essential Oil				--
60	LIMONENE	Plant	18.0	1710.0	0.5651398458031535	--
60	LIMONENE	Essential Oil		38000.0	-0.5183422055574805	--
60	LIMONENE	Leaf Essent. Oil		24000.0	-0.5721355904683862	--
0	LINALOL	Plant	99.0	568.0	-0.3038061677841181	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	LINALOOL	Plant	99.0	7965.0	0.4132286080067176	--
53	LINALOOL	Essential Oil		7000.0	-0.5517579885648786	--
53	LINALOOL	Shoot		164100.0	5.787049323750151	--
0	LINALOOL-ACETATE	Essential Oil		34000.0	-0.3272680541058478	--
7	LINALYL-ACETATE	Plant	3.0	3030.0	0.8790079353067117	--
27	LINOLEIC-ACID	Seed		10000.0	-0.8321526228533093	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINOLEIC-ACID-ETHYL-ESTER	Essential Oil				--
0	LINOLENIC-ACID	Seed		27500.0	-0.09978029895951895	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINOLENIC-ACID-ETHYL-ESTER	Essential Oil				--
0	LUSITANICOSIDE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	LUTEOLIN-7-GLUCOSIDE	Plant				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	LUTEOLIN-7-O-BETA-D-DIGLUCOSIDE	Pollen Or Spore				--
65	MAGNESIUM	Plant	3300.0	3900.0	-0.0516230386408005	USDA's Ag Handbook 8 and sequelae)
0	MAJARONIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	MAJORANIN	Plant				--
14	MANGANESE	Plant		54.0	-0.30787688494994525	USDA's Ag Handbook 8 and sequelae)
0	MENTHA-1,3-DIENE	Essential Oil				--
63	MENTHOL	Essential Oil				--
0	METHYL-ARBUTIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	METHYL-ARBUTIN	Shoot				--
6	METHYL-CHAVICOL	Plant	96.0	550.0	-0.9033588179021271	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	MURWAOSIDE	Leaf		5025.0		--
22	MYRCENE	Essential Oil				--
22	MYRCENE	Plant	18.0	103.0	-0.36294107421133504	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	N-TRIACONTANE	Plant		182000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NEROL-ACETATE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	NERYL-ACETATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
39	NIACIN	Plant	41.0	44.0	-0.45847508395560455	USDA's Ag Handbook 8 and sequelae)
2	OCIMENE	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
64	OLEANOLIC-ACID	Plant		4700.0	0.19004070814741195	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Seed		8000.0	-0.9133355142467426	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	OLEIC-ACID-ETHYL-ESTER	Essential Oil				--
4	ORIENTIN	Shoot				--
25	P-COUMARIC-ACID	Leaf		1100.0	-0.06115839551859982	--
0	P-CYMEN-8-OL	Plant	8.0	43.0	-0.06112505014632677	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	P-CYMEN-8-OL	Essential Oil		0.0		--
16	P-CYMENE	Essential Oil		47000.0	-0.2453610155054874	--
16	P-CYMENE	Plant	21.0	210.0	-0.3655894027588645	--
16	P-CYMENE	Leaf Essent. Oil		20000.0	-0.4814765484301064	--
1	PALMITIC-ACID-ETHYL-ESTER	Essential Oil		12000.0		--
0	PENTOSANS	Plant	70000.0	76800.0	-1.0044263136260358	--
26	PHENOL	Plant	1431.0	8204.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Plant	2670.0	3725.0	0.06551800424758951	USDA's Ag Handbook 8 and sequelae)
2	PHYTOSTEROLS	Plant	600.0	650.0	-0.8083557786797939	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PLANTEOSE	Seed				--
14	POTASSIUM	Plant	14500.0	17225.0	-0.31886329834759486	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Plant	121450.0	143100.0	-0.2488413430316014	--
15	RIBOFLAVIN	Plant		3.0	-0.5861819139119265	USDA's Ag Handbook 8 and sequelae)
57	ROSMARINIC-ACID	Inflorescence		33000.0	-0.13649164081487425	--
57	ROSMARINIC-ACID	Shoot		9400.0	-0.4142658927809455	--
57	ROSMARINIC-ACID	Plant		33000.0	0.281534733255827	Fitoterapia No.62: 166.
87	RUTIN	Shoot				--
5	SABINENE	Plant	75.0	7500.0	4.99614301661853	--
5	SABINENE	Essential Oil		82000.0	-0.015057370464564934	--
5	SABINENE	Leaf Essent. Oil		30000.0	-0.13554261008120452	--
0	SALICYLIC-ACID-2-BETA-D-GLUCOSIDE	Leaf				--
0	SAPONIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	SODIUM	Plant	675.0	935.0	-0.25231992508556245	USDA's Ag Handbook 8 and sequelae)
0	STEARIC-ACID-ETHYL-ESTER	Essential Oil				--
12	STIGMASTEROL	Plant	50.0	55.0	-0.7296625889468641	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
0	SYRINGIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
35	TANNIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
23	TERPINEN-4-OL	Leaf	135.0	1530.0	0.5332933928836353	--
23	TERPINEN-4-OL	Essential Oil		103000.0	0.3836938468472445	--
23	TERPINEN-4-OL	Leaf Essent. Oil		310000.0	2.081229334325422	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	TERPINEN-4-OL	Plant	1365.0	13650.0	5.665014759682814	--
23	TERPINEN-4-OL	Shoot Essent. Oil		176700.0	1.412151043457717	--
0	TERPINEN-4-OL-ACETATE	Essential Oil		61000.0	1.0	--
0	TERPINEN-4-OL-METHYL-ETHER	Leaf Essent. Oil		20000.0		--
0	TERPINEN-4-YL-ACETATE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TERPINENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERPINENOL	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	TERPINOLENE	Essential Oil		20000.0	-0.2455444370688689	--
9	TERPINOLENE	Plant	75.0	430.0	3.057637791806235	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Leaf	50.0	600.0	0.5322296849470326	--
31	THIAMIN	Plant		3.0	-0.3909910138264638	USDA's Ag Handbook 8 and sequelae)
71	THYMOL	Shoot Essent. Oil		115500.0	1.9615538252670992	--
71	THYMOL	Essential Oil	15000.0	40000.0	-0.930874809378824	--
0	TRANS-3-ETHOXY-1-P-MENTHENE	Essential Oil		2000.0		--
0	TRANS-3-ETHOXY-P-MENTH-1-ENE	Plant				--
0	TRANS-4-ETHOXY-THUJANE	Essential Oil		213000.0		--
0	TRANS-4-ETHOXY-THUJANE	Plant				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	TRANS-ANETHOLE	Plant	8.0	43.0	-0.45493255526565674	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	TRANS-P-MENTH-2-EN-1-OL	Plant	52.0	301.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-P-MENTH-2-ENOL	Leaf Essent. Oil		50000.0		--
0	TRANS-PIPERITOL	Essential Oil		0.0		--
0	TRANS-PIPERITOL	Plant	9.0	52.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-SABINENE-HYDRATE	Essential Oil		51000.0	1.0	--
0	TRANS-SABINENE-HYDRATE	Leaf Essent. Oil		60000.0	1.0	--
0	TRANS-SABINENE-HYDRATE	Plant	30.0	1850.0	3.431164061315594	--
0	TRANS-SABINENE-HYDRATE-METHYL-ETHER	Leaf Essent. Oil		60000.0		--
0	TRANS-Z-P-MENTHEN-1-OL	Essential Oil		61000.0		--
89	URSOLIC-ACID	Plant	500.0	2100.0	-0.695295811066768	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	URSOLIC-ACID-I	Plant		4700.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	URSOLIC-ACID-II	Plant		1200.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Leaf				--
18	VITEXIN	Shoot				--
0	WATER	Plant	74920.0	77880.0	-2.966987461751347	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Plant	32.0	43.0	-0.09018412071860993	--