

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Humulus lupulus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Flower				--
77	ZINC	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	XANTHOTHUMOL	Resin, Exudate, Sap		78750.0		--
4	XANTHOTHUMOL	Fruit		15.0		--
4	XANTHOTHUMOL	Strobilus		300.0		--
0	WATER	Flower		814000.0	0.012271942343700371	--
0	WATER	Fruit	60000.0	120000.0	-2.8287641988252616	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	VIRIDIFLOROL	Fruit		16.0		--
0	VIRIDIFLORENE	Fruit		60.0		--
3	VALINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
89	URSOLIC-ACID	Stem				--
0	UNDECAN-2-AL	Essential Oil				--
8	TYROSINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
29	TRYPTOPHAN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	TRIMETHYLAMINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRICYCLOISOHUMULONE	Inflorescence				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRICYCLODEHYDROISOHUMULONE	Fruit				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	TRICYCLO-DEHYDRO-HUMULONE	Fruit		3000.0		--
0	TRANS-ISOHUMULONE	Flower				--
2	TRANS-BETA-FARNESENE	Tissue Culture				--
4	TIN	Flower	4.0	22.0	0.9878291611472616	--
4	TIN	Fruit		22.0	-0.2908840013040884	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	THREONINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	THIAMINE	Flower	0.6	3.4	0.4403764280895233	--
31	THIAMIN	Fruit		3.4	-0.24739706588262703	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TETRADEC-9-EN-2-ON	Plant				--
0	TANNINS	Fruit	20000.0	40000.0	-0.45457956903500574	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	T-CADINOL	Fruit		9.0		--
0	SUGARS	Flower	22320.0	120000.0	0.816496580927726	--
14	SUCROSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	STIGMASTEROL	Stem				--
1	STACHYOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
10	SQUALENE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SPATHULENOL	Fruit		10.0	-1.0	--
1	SODIUM	Flower	9.0	47.0	-0.5922029574106819	--
1	SODIUM	Fruit		47.0	-0.17949382924161622	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Fruit		4.5	-0.5938225414098025	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Flower	0.8	4.5	-0.5633927701595145	--
1	SERINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SELINA-4(14),7(11)-DIENE	Fruit				--
0	SELINA-3,7-DIENE	Fruit		195.0		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SELINA-3,7(11)-DIENE	Fruit				--
0	SELIN-11-EN-OL	Fruit		29.0		--
60	SELENIUM	Flower	0.3	1.7	-0.5395561278850259	--
60	SELENIUM	Fruit		1.7	0.03537263271054239	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	S-METHYLTHIO-4-METHYLPENTANOATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	S-METHYLTHIO-2-METHYLBUTANOATE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
87	RUTIN	Leaf		2000.0	-0.8803806294985641	--
87	RUTIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Flower	2.0	10.1	0.9131195269275587	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Fruit		10.0	1.0688416055697534	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	RESINS	Fruit	30000.0	300000.0	1.0	--
1	RAFFINOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	QUERCITRIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	QUERCETIN-3-RHAMNOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-RHAMNODIGLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	QUERCETIN-3-O-RHAMNOSIDE	Fruit				--
0	QUERCETIN-3-O-RUTINOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	QUERCETIN-3'-GLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Plant				--
1	PYRROLIDINE	Flower		1.0		--
1	PYRROLIDINE	Inflorescence		1.0		--
0	PROTEIN	Flower	21390.0	115000.0	-0.322653241355452	--
0	PROTEIN	Fruit	115000.0	240000.0	1.7494288187526115	--
0	PROLINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PRODELPHINIDIN-B-3	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	PROCYANIDINS	Fruit				--
4	PROCYANIDIN-B-4	Fruit				--
2	PROCYANIDIN-B-3	Fruit				--
1	PROCYANIDIN-B-2	Fruit				--
1	PROCYANIDIN-B-1	Fruit				--
0	PRELUPULONE	Inflorescence				--
0	PRELUPULONE	Fruit				--
0	PREHUMULONE	Inflorescence				--
0	PREHUMULONE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	POTASSIUM	Fruit		23500.0	0.49399185392198836	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	POTASSIUM	Flower	4371.0	23500.0	0.43388681236779714	--
0	POSTHUMULONE	Inflorescence				--
0	POSTHUMULONE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
10	PIPERIDINE	Inflorescence		2.5		--
10	PIPERIDINE	Flower		2.5		--
4	PHOSPHORUS	Fruit		4760.0	0.4689758575548939	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	PHOSPHORUS	Flower	885.0	4760.0	0.44165313354460856	--
0	PHLOBAPHENE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PHENYLETHANOL	Essential Oil				--
7	PHENYLALANINE	Fruit				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
0	PENTYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PENTOSAN	Stem				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PENTENYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PENTADECA-6,9-DIEN-2-ON	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	PECTIN	Fruit	120000.0	140000.0	1.0319193042672525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PALUSTROL	Fruit		7.0		--
16	P-CYMENE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
25	P-COUMARIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
64	OLEANOLIC-ACID	Stem				--
0	OCTYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTYL-ACETATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NONANYL	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
39	NIACIN	Fruit		435.0	5.003766647644194	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
39	NIACIN	Flower	81.0	435.0	3.352263480595522	--
0	NH3	Inflorescence				--
0	NERYLPROPIONATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NERYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	NEROLIDOL	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
10	NEROL	Essential Oil				--
10	NEROL	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	NEO-CHLOROGENIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
34	MYRICETIN	Plant				--
0	MYRCENOL	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
22	MYRCENE	Inflorescence				--
22	MYRCENE	Plant				--
22	MYRCENE	Strobilus				--
22	MYRCENE	Essential Oil				--
22	MYRCENE	Fruit				--
0	METHYLUNDECADIENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLTRIDECENOATE	Essential Oil				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
0	METHYLTHIOISOHEPTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLTHIOHEXANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLTHIOHEPTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLNONENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLGLUTAMINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLDODECADIEENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLDODEC-8-ENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYLDECENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-UNDECENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-UNDECANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-THIO-HUMULONE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	METHYL-THIO-HUMULENE	Essential Oil				--
0	METHYL-OCTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	METHYL-NONYL-KETONE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	METHYL-NONANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-HEXANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-HEPTANOATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-GLUTAMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-GERANATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-DODECANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-DECANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-DECA-4-ENOATE	Essential Oil				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
0	METHYL-DECA-4,8-DIENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	METHYL-AMINE	Flower		3.7	-1.0	--
0	METHYL-9-METHYLDECANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-8-METHYLNONANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-6-METHYL-HEPTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-5-METHYLHEXANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-4-METHYLHEX-2-ENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-2-METHYLNONANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-2,5-DIMETHYLHEXENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METACAMPHORENE	Essential Oil				--
6	MASLINIC-ACID	Stem				--
14	MANGANESE	Fruit		8.1	-0.3501271465981358	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	MANGANESE	Flower	1.5	8.1	-0.36407539187837923	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	MALTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
65	MAGNESIUM	Fruit		2380.0	0.11588638233919304	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Flower	443.0	2380.0	-0.3123747135433822	--
0	M-CAMPHORENE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	LYSINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	LUPULONE	Plant				--
9	LUPULONE	Flower				--
9	LUPULONE	Strobilus		1300.0		--
9	LUPULONE	Fruit				--
9	LUPULONE	Inflorescence				--
4	LUPULIN	Fruit				--
0	LUPARONE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	LUPAROL	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LUPARENOL	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LINALYL-PROPIONATE	Essential Oil				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
0	LINALYL-ISONONYLATE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
53	LINALOOL	Essential Oil				--
53	LINALOOL	Fruit				--
0	LINALOL	Fruit				--
60	LIMONENE	Essential Oil				--
60	LIMONENE	Fruit				--
13	LIGNIN	Stem				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	LEUCODELPHINIDIN	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
2	LEUCODELPHINIDIN	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
1	LEUCOCYANIDIN	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
1	LEUCOCYANIDIN	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
2	LEUCINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LEDOL	Fruit		8.0		--
0	KILOCALORIES	Fruit		2880.0	-1.1855236651643823	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	KAEMPFEROL-3-RHAMNOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	KAEMPFEROL-3-RHAMNODIGLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	KAEMPFEROL-3-O-RUTINOSIDE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
75	KAEMPFEROL	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	JUNIPER-CAMPHOR	Fruit		13.0		--
6	ISOXANTHOTHUMOL	Fruit		1838.0		--
6	ISOXANTHOTHUMOL	Resin, Exudate, Sap		42500.0		--
5	ISOVALERIC-ACID	Essential Oil				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
22	ISOQUERCITRIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ISOPRENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISOPREHUMULONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISOPENTYL-AMINE	Inflorescence		0.4		--
0	ISOPENTYL-AMINE	Flower		0.4		--
0	ISOPENTENYL-NARANGENIN	Resin, Exudate, Sap		2375.0		--
0	ISOPARAFFIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISOMALTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ISOLEUCINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ISOHUMULONE	Fruit				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
0	ISOCOCHUMULONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISOADHUMULONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Flower				--
6	IRON	Fruit				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
16	HUMULONE	Strobilus		5000.0		--
16	HUMULONE	Plant				--
16	HUMULONE	Flower				--
16	HUMULONE	Inflorescence				--
16	HUMULONE	Fruit				--
0	HUMULOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	HUMULINONE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HUMULENOL-II	Essential Oil				--
0	HUMULENOL-II	Fruit		15.0		--
0	HUMULENE-MONOEOXIDE-I	Essential Oil				--
0	HUMULENE-MONOEOXIDE-I	Fruit				--
0	HUMULENE-EPOXIDE-II	Essential Oil				--
0	HUMULENE-EPOXIDE-II	Fruit		71.0		--
0	HUMULENE-EPOXIDE-I	Fruit		7.0		--
0	HUMULENE-EPOXIDE	Essential Oil				--
0	HUMULENE-DIEPOXIDE-A	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HUMULENE-DIEPOXIDE-A	Fruit				--
2	HUMULENE	Flower				--
2	HUMULENE	Fruit		1200.0	1.4104326443879445	--
2	HUMULENE	Essential Oil				--
2	HUMULENE	Plant				--
0	HULUPONE	Fruit	21000.0	39000.0		--
0	HULUPINIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
7	HISTIDINE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXYLPROPIONATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXYL-ISOBUTYRATE	Plant				--
0	HEPTYLPROPIONATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	HEPTYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HELUPONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
9	hederagenin	Stem				--
7	GLUCOSE	Fruit	15000.0	20000.0	-0.6828399338718176	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GLOBULOL	Fruit		27.0	-1.0	--
2	GERMACRENE-D	Fruit		15.0	-1.0	--
0	GERMACRENE-B	Fruit		105.0	-1.0	--
0	GERMACRATRIENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	GERANYL-PROPIONATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GERANYL-ISOBUTYRATE	Essential Oil				--
5	GERANYL-ACETATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
35	GERANIOL	Essential Oil				--
35	GERANIOL	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GERANIC-ACID-METHYL-ESTER	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GENTISIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-MUUROLENE	Fruit		170.0	1.0	--
20	GAMMA-LINOLENIC-ACID	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GAMMA-IONONE	Essential Oil				--
0	GAMMA-EUDESOL	Fruit		18.0		--
0	GAMMA-ELEMENE	Fruit		16.0	-0.7367653332135127	--
0	GAMMA-CALOCORENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	GAMMA-CADINENE	Fruit		60.0	0.07091843089178781	--
22	GAMMA-AMINOBUTYRIC-ACID	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GALLOCATECHIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Fruit	15000.0	20000.0	-0.617530686348938	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	FRIEDELIN	Stem				--
12	FORMALDEHYDE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FIBER(DIETARY)	Flower		342000.0	0.3333778507865993	--
0	FIBER(CRUDE)	Flower		72000.0	-0.03302065882072333	--
15	FIBER	Fruit		72000.0	-0.6574998263757718	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
61	FERULIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAT	Flower	5394.0	29000.0	-0.45281178898821745	--
0	FAT	Fruit		29000.0	-0.4197524224718951	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
17	FARNESOL	Fruit		17.0	-0.6852064014620585	--
17	FARNESOL	Essential Oil				--
2	FARNESENE	Essential Oil				--
76	EUGENOL	Essential Oil				--
0	ETHYL-METHYL-AMINE	Flower		3.7		--
0	ETHYL-METHYL-AMINE	Inflorescence		3.7		--
0	ETHYL-HEPTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ETHYL-AMINE	Flower		5.2		--
0	ETHYL-AMINE	Inflorescence		5.2		--
8	ESTRONE	Fruit				--
3	ESTRADIOL	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EPIGLOBULOL	Fruit		5.0		--
0	EPICUBENOL	Fruit		13.0	-1.0	--
40	EPICATECHIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EO	Flower	2000.0	10000.0	-0.09040057685018825	--
0	EO	Seed	10000.0	30000.0	-0.17124289278893168	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	EO	Fruit	3000.0	10000.0	-0.625591783140096	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
7	DIPENTENE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	DIMETHYLVINYL-CARBINOL	Flower				--
2	DIMETHYL-AMINE	Inflorescence		1.4		--
2	DIMETHYL-AMINE	Flower		1.4	-0.9999999999999997	--
2	DIETHYL-AMINE	Flower		3.1		--
2	DIETHYL-AMINE	Inflorescence		3.1		--
0	DEOXYHUMULONE	Plant				--
0	DEOXYHUMULONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DEOXYCOHUMULONE	Plant				--
0	DEMETHYL-XANTHOSUMOL	Strobilus				--
0	DEMETHYL-XANTHOSUMOL	Fruit				--
0	DELTA-SELINENE	Fruit		55.0		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELTA-GUAIENE	Fruit		20.0		--
1	DELTA-CADINOL	Fruit		36.0	1.0	--
9	DELTA-CADINENE	Fruit		60.0	-0.4584564235430147	--
9	DELPHINIDIN	Plant				--
1	DECAN-1-AL	Essential Oil				--
7	CYANIDIN	Plant				--
0	CUBENOL	Fruit		17.0	-1.0	--
3	COLUPULONE	Plant				--
3	COLUPULONE	Fruit				--
3	COLUPULONE	Inflorescence				--
3	COLUPULONE	Strobilus				--
0	COLUPOX	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	COLUPDOX	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	COHUMULONE	Inflorescence				--
2	COHUMULONE	Plant				--
2	COHUMULONE	Strobilus				--
2	COHUMULONE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	COBALT	Flower	0.5	2.4	-0.41850902895210695	--
2	COBALT	Fruit		2.4	-0.24457299524657042	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
53	CITRAL	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	CITRAL	Essential Oil				--
24	CHROMIUM	Fruit		0.7	-0.4093125277624259	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Flower	0.1	0.7	-1.0719973021906593	--
20	CHOLINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
77	CHLOROGENIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CEROTIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CELLULOSE	Stem				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
43	CATECHIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	CARYOPHYLLENE-OXIDE	Essential Oil				--
6	CARYOPHYLLENE-EPOXIDE	Fruit		24.0		--
31	CARYOPHYLLENE	Plant				--
0	CARYOPHYLLA-4(12)-8(13)-DIEN-5-BETA-OL	Essential Oil				--
0	CARYOPHYLLA-3-8(13)-DIEN-5-BETA-OL	Essential Oil				--
0	CARYOPHYLLA-3(8)-13-DIEN-5-OL	Essential Oil				--
0	CARYOPHYLLA-3(8)-13-DIEN-5-ALPHA-OL	Essential Oil				--
0	CARYOPHYLLA-3(12)-6-DIEN-4-OL	Essential Oil				--
0	CARYOLAN-1-OL	Fruit		5.0		--
0	CARBOHYDRATES	Fruit		770000.0	-0.06888495104483651	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	CARBOHYDRATES	Flower	143220.0	770000.0	0.5901036049686585	--
8	CANNABIDIOL	Leaf				--
2	CAMPESTEROL	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Fruit		6222.0	0.545912951542125	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
28	CALCIUM	Flower	1157.0	6220.0	0.12434337429806096	--
0	CALAMENENE	Fruit		2.0	-0.6174844953736063	--
102	CAFFEIC-ACID	Plant				--
0	CADALENE	Fruit		2.0		--
0	BUTYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTYLATED-HYDROXY-TOLUENE	Strobilus				--
0	BICYCLOGERMACRENE	Fruit		10.0		--
47	BETA-SITOSTEROL	Plant				--
0	BETA-SELINENE-EPOXIDE-I	Fruit		2.0		--
3	BETA-SELINENE	Fruit		150.0	1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	BETA-PINENE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	BETA-PINENE	Plant				--
13	BETA-PINENE	Essential Oil				--
2	BETA-MYRCENE	Essential Oil	420000.0	580000.0	1.706327614199298	--
0	BETA-FARNESENE	Fruit		35.0	-1.0	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
13	BETA-EUDES MOL	Fruit		60.0		--
0	BETA-CUBEBENE	Fruit		5.0	-0.7073479088132132	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-CARYOPHYLLENE	Fruit		520.0	-0.4871544215252672	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-CARYOPHYLLENE	Essential Oil				--
53	BETA-CAROTENE	Fruit		2.4	-0.1461614723719775	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
53	BETA-CAROTENE	Flower	0.5	2.4	-0.5854376351911411	--
2	BETA-ALANINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	ASTRAGALIN	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASPARAGINIC-ACID	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	ASPARAGINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Fruit	70000.0	100000.0	1.1222069856554242	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Flower	15996.0	86000.0	0.3979087975090442	--
112	ASCORBIC-ACID	Flower	332.0	1782.0	-0.2861764494395231	--
112	ASCORBIC-ACID	Fruit		1782.0	-0.17368960442994769	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	AROMADENDRINE	Fruit		98.0		--
14	ARGININE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	AMMONIA(NH3)	Flower		10660.0	-0.02903630467319503	--
0	AMMONIA	Flower		10660.0		--
0	AMMONIA	Inflorescence				--
5	ALUMINUM	Flower	0.9	4.7	-1.6412298738578974	--
5	ALUMINUM	Fruit		4.7	-0.22215407810898732	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ALPHA-YLANGENE	Fruit		5.0	-0.6962565325467188	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	ALPHA-TOCOPHEROL	Strobilus				--
23	ALPHA-TERPINEOL	Essential Oil				--
3	ALPHA-SELINENE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	ALPHA-PINENE	Essential Oil				--
28	ALPHA-PINENE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ALPHA-MUUROLENE	Fruit		35.0	-0.6984779293060631	--
2	ALPHA-HUMULENE	Fruit				--
2	ALPHA-HUMULENE	Essential Oil		400000.0	3.136732670792344	--
0	ALPHA-GUAIENE	Fruit		16.0		--
0	ALPHA-EUDESOL	Fruit		65.0		--
0	ALPHA-CUBEBENE	Plant		15.0	-0.508000508000762	--
0	ALPHA-CORACALENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ALPHA-COPAENE	Fruit		15.0	-0.6690795871823009	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ALPHA-CARYOPHYLLENE	Essential Oil				Chemical Constituents of Oriental Herbs (3 diff. books)
3	ALPHA-CADINOL	Fruit		15.0		--
0	ALPHA-CADINENE	Fruit		10.0		--
0	ALPHA-AMINO-ADIPIC-ACID	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ALPHA-ALANINE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ALLOAROMADENDRENE-EPOXIDE	Fruit		12.0		--
2	ALLO-CYMENE	Essential Oil				--
0	ALLO-AROMADENDRENE	Fruit		77.0	-0.679784818689129	--
2	ADLUPULONE	Inflorescence				--
2	ADLUPULONE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ADLUPULONE	Fruit				--
2	ADLUPULONE	Strobilus				--
2	ADHUMULONE	Inflorescence				--
2	ADHUMULONE	Plant				--
2	ADHUMULONE	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	ADHUMULONE	Strobilus				--
0	ADHULUPONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ACYLPHLOROGLUCIDES	Fruit				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	ACETONE	Fruit				--
3	ACETONE	Inflorescence				--
3	ACETONE	Flower				--
0	8,9-EPI-THIOHUMULENE	Essential Oil				--
0	6-ISO-PENTENYL-NARINGENIN	Resin, Exudate, Sap		2375.0		--
0	6-(4-METHYL-PENT-3-ENYL)1,2,3,4-TETRATHIACYCLOCT-6-ENE	Essential Oil				--
0	6-(4-METHYL-PENT-3-ENYL)-1,2,3,4-TETRATHIACYCLOCT-6-ENE	Essential Oil				--
0	5-ALPHA-STIGMASTAN-3-ONE	Stem				--
0	5-ALPHA-STIGMAST22-EN-3-ONE	Stem				--
0	5-ALPHA-ERGOSTAN-3-ONE	Stem				--
0	5-(4-METHYL-PENT-3-ENYL)-1,2,3-TRITHIACYCLOHEPT-5-ENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-(4-METHYL-5-PENT-3-ENYL)1,2,3-TRITHIACYCLOHEPT-5-ENE	Essential Oil				--
0	4-DEOXYHUMULONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	4-DEOXYHUMULONE	Inflorescence				--
0	4-DEOXYHUMULONE	Plant				--
0	4-DEOXYCOHUMULONE	Plant				--
0	4-(4-METHYL-PENT-3-ENYL)3,6-DIHYDRO-1,2-DITHIINE	Fruit				--
0	4-(4-METHYL-PENT-3-ENYL)1,2-DITHIACYCLOHEX-4-ENE	Essential Oil				--
0	4,5-EPITHIOCARYOPHYLLENE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	4,5-EPITHIOCARYOPHYLLENE	Essential Oil				--
0	3-METHYLBUTYLISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-METHYL-BUTANOIC-ACID	Flower				--
0	3-METHYL-BUTAN-2-ONE	Flower				--
0	3-METHYL-BUTAN-1-OL	Flower				--
0	3-METHYL-BUT-2-EN-1-AL	Flower				--
0	3-(4-METHYL-PENT-3-ENYL)-3-THIOPHENE	Fruit				--
0	3-(4-METHYL-PENT-3-ENYL)-3-THIOPHENE	Essential Oil				--
0	3'(ISOPRENYL)-2',4'-DIHYDROXY-4,6'-DIMETHOXY-CHALCONE	Fruit		28.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-UNDECANON	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	2-TRIDECANONE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-TETRADECANON	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-PENTADECANONE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-NONANON	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLPROPYLPENTENOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLPROPYL-ISOBUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLPROPYL-2-METHYL-BUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLBUTYLPROPIONATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLBUTYLISOBUTYRATE	Essential Oil				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
0	2-METHYLBUTYLHEXANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYLBUTYLHEPTANOATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYL-THIA-5-HEX-2-ENE	Essential Oil				--
0	2-METHYL-PROPANIC-ACID	Flower				--
0	2-METHYL-PROPAN-1-OL	Flower				--
0	2-METHYL-BUTYL-ISOVALERATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYL-BUTYL-2-METHYL-BUTYRATE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYL-BUT-B-EN-2-OL	Fruit		1000.0		--
0	2-METHYL-BUT-3-EN-2-OL	Fruit		1500.0		--
0	2-METHYL-BUT-3-EN-2-OL	Inflorescence				--
0	2-METHYL-5-THIA-HEX-2-ENE	Essential Oil				--
0	2-METHYL-5-PENTENYLFURAN	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-DODECANONE	Essential Oil				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-DECANONE	Plant				--
0	2,3,5-TRITHIAHEXANE	Essential Oil				--
0	2,3,4-TRITHIAPENTANE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2,3,4-TRITHIAPENTANE	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	2,2-DIMETHYL-5-OXO-2,5-DIHYDRO-FURAN	Flower				--
0	2',6'-DIMETHOXY-4,4'-DIHYDROXY-CHALCONE	Fruit		75.0		--
0	12AROMADENDRINE-EPOXIDE	Fruit		20.0		--
0	1,2-EPI-THIOHUMULENE	Essential Oil				--
38	(-)-EPICATECHIN	Fruit				--
30	(+)-CATECHIN	Fruit				--