

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Melilotus officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROTEIN	Seed	128000.0	416000.0	1.6207983387884666	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed	19000.0	83000.0	-0.9607006829596275	--
57	COUMARIN	Shoot	500.0	5400.0	1.0	--
0	ACETYLSOYASAPONIN-I	Root		9.0		--
5	SAPONINS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
25	P-COUMARIC-ACID	Shoot				--
1	MELILOTIN	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
61	FERULIC-ACID	Shoot				--
0	SOYASAPONIN-I	Root		200.0	-0.6403734846871075	--
0	SAPOGENINS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	O-COUMARIC-ACID	Shoot				--
0	MELILOTIC-ACID-ESTER	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
7	DIOSGENIN	Seed		1000.0	-0.7071067811865476	--
0	SOYASAPOGENOL-E	Shoot		13.0		--
0	3,4-DIHYDROXY-BENZOIC-ALDEHYDE	Plant				Pharmazie, 46: 156, 1991.
34	MYRICETIN	Flower				--
75	KAEMPFEROL	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
57	COUMARIN	Flower				--
0	SOYASAPOGENOL-B	Shoot		250.0		--
25	P-COUMARIC-ACID	Plant				Pharmazie, 46: 156, 1991.
0	MELILOTIGENIN	Inflorescence		62.5		--
61	FERULIC-ACID	Plant				Pharmazie, 46: 156, 1991.
57	COUMARIN	Stem				--
9	SINAPIC-ACID	Shoot				--
4	O-COUMARIC-ACID	Plant				Pharmazie, 46: 156, 1991.
1	MELILOTIC-ACID	Shoot				--
34	SALICYLIC-ACID	Shoot				--
102	CAFFEIC-ACID	Plant				Pharmazie, 46: 156, 1991.
13	MEDICARPIN	Leaf				--
1	MELILOTIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
57	COUMARIN	Leaf				--
176	QUERCETIN	Flower				--
34	SALICYLIC-ACID	Plant				Pharmazie, 46: 156, 1991.
75	KAEMPFEROL	Flower				--
0	HYDROCOUMARIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
102	CAFFEIC-ACID	Shoot				--
43	PROTOCATECHUIC-ACID	Shoot				--
176	QUERCETIN	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
75	KAEMPFEROL	Shoot		12.5	-0.7612766674260454	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	VANILLIC-ACID	Shoot				--
0	AZUKISAPONIN-V	Shoot				--
1	PROTocatechualdehyde	Shoot		50.0		--
1	PROTocatechualdehyde	Plant				Pharmazie, 46: 156, 1991.
0	EO	Flower		130.0	-0.41899431244054014	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	GENTISIC-ACID	Shoot				--
6	SYRINGIC-ACID	Shoot				--
0	AZUKISAPONIN-V	Plant				--
0	P-HYDROXYPHENYLACTIC-ACID	Shoot				--
64	OLEANOLIC-ACID	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
57	COUMARIN	Plant		2000.0	-0.19906863301293415	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
62	GALLIC-ACID	Shoot				--
0	DEHYDRO-SOYASAPONIN-I	Root		9.0		--
0	4-HYDROXY-BENZOIC-ACID	Shoot				--
0	P-HYDROXYPHENYLACETIC-ACID	Shoot				--
0	MELILOTOSIDE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	COUMARIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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0	GALACTOMANNAN	Seed				--