

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Melilotus officinalis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	3,4-DIHYDROXY-BENZOIC-ALDEHYDE	Plant				Pharmazie, 46: 156, 1991.
0	4-HYDROXY-BENZOIC-ACID	Shoot				--
0	ACETYLSOYASAPONIN-I	Root		9.0		--
0	AZUKISAPONIN-V	Shoot				--
0	AZUKISAPONIN-V	Plant				--
102	CAFFEIC-ACID	Plant				Pharmazie, 46: 156, 1991.
102	CAFFEIC-ACID	Shoot				--
0	COUMARIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
57	COUMARIN	Flower				--
57	COUMARIN	Stem				--
57	COUMARIN	Shoot	500.0	5400.0	1.0	--
57	COUMARIN	Leaf				--
0	DEHYDRO-SOYASAPONIN-I	Root		9.0		--
7	DIOSGENIN	Seed		1000.0	-0.7071067811865476	--
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.
0	FAT	Seed	19000.0	83000.0	-0.9607006829596275	--
61	FERULIC-ACID	Shoot				--
61	FERULIC-ACID	Plant				Pharmazie, 46: 156, 1991.
0	GALACTOMANNAN	Seed				--
62	GALLIC-ACID	Shoot				--
8	GENTISIC-ACID	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HYDROCOUMARIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
75	KAEMPFEROL	Shoot		12.5	-0.7612766674260454	--
75	KAEMPFEROL	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
75	KAEMPFEROL	Flower				--
13	MEDICARPIN	Leaf				--
1	MELILOTIC-ACID	Shoot				--
1	MELILOTIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
0	MELILOTIGENIN	Inflorescence		62.5		--
1	MELILOTIN	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	MELILOTOSIDE	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
34	MYRICETIN	Flower				--
4	O-COUMARIC-ACID	Shoot				--
4	O-COUMARIC-ACID	Plant				Pharmazie, 46: 156, 1991.
64	OLEANOLIC-ACID	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
25	P-COUMARIC-ACID	Shoot				--
25	P-COUMARIC-ACID	Plant				Pharmazie, 46: 156, 1991.
0	P-HYDROXYPHENYLACETIC-ACID	Shoot				--
0	P-HYDROXYPHENYLACTIC-ACID	Shoot				--
0	PROTEIN	Seed	128000.0	416000.0	1.6207983387884666	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	PROTocatechualdehyde	Plant				Pharmazie, 46: 156, 1991.
1	PROTocatechualdehyde	Shoot		50.0		--
43	PROTocatechuic-acid	Shoot				--
176	QUERCETIN	Flower				--
176	QUERCETIN	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
34	SALICYLIC-ACID	Shoot				--
34	SALICYLIC-ACID	Plant				Pharmazie, 46: 156, 1991.
0	SAPOGENINS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
5	SAPONINS	Leaf				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
9	SINAPIC-ACID	Shoot				--
0	SOYASAPOGENOL-B	Shoot		250.0		--
0	SOYASAPOGENOL-E	Shoot		13.0		--
0	SOYASAPONIN-I	Root		200.0	-0.6403734846871075	--
6	SYRINGIC-ACID	Shoot				--
24	VANILLIC-ACID	Shoot				--