

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Crocus sativus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	STARCH	Silk Stigma Style	119900.0	130300.0		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
15	FIBER	Silk Stigma Style	43800.0	48800.0	-1.0	--
4	CROCIN	Silk Stigma Style	6500.0	145000.0		--
15	RIBOFLAVIN	Silk Stigma Style	56.0	138.0	1.0	--
31	THIAMIN	Silk Stigma Style	0.7	4.0	1.0000000000000009	--
24	VITAMIN-B-1	Silk Stigma Style	0.53	4.0		--
3	METHYL-NONYL-KETONE	Silk Stigma Style				--
176	QUERCETIN	Flower				Abstract (See species file)
35	GERANIOL	Silk Stigma Style				--
2	GAMMA-CAROTENE	Silk Stigma Style				--
4	THREONINE	Bulb				--
3	ASPARTIC-ACID	Bulb				--
2	BETA-MYRCENE	Silk Stigma Style				--
12	PINENE	Silk Stigma Style				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
8	FRUCTOSE	Silk Stigma Style				--
9	TERPINOLENE	Silk Stigma Style				--
14	ARGININE	Bulb				--
15	METHIONINE	Bulb				--
3	PETUNIDIN	Flower				Abstract (See species file)
6	FENCHONE	Silk Stigma Style				--
9	DELPHINIDIN	Flower				Abstract (See species file)
53	LINALOOL	Silk Stigma Style				--
11	GAMMA-TERPINENE	Silk Stigma Style				--
7	PHENYLALANINE	Bulb				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MALVIDIN	Flower				--
13	PALMITIC-ACID	Silk Stigma Style				--
2	CYSTINE	Bulb				--
4	CROCIN	Plant				--
60	LIMONENE	Silk Stigma Style				--
13	ALPHA-TERPINENE	Silk Stigma Style				--
3	ALANINE	Bulb				--
4	LYSINE	Bulb				--
18	OLEIC-ACID	Silk Stigma Style				--
10	CROCETIN	Silk Stigma Style				--
41	CAMPHOR	Silk Stigma Style				--
16	P-CYMENE	Silk Stigma Style				--
23	TERPINEN-4-OL	Silk Stigma Style		265000.0		--
5	ZEAXANTHIN	Silk Stigma Style				--
27	LINOLEIC-ACID	Silk Stigma Style				--
1	NAPHTHALENE	Silk Stigma Style				--
12	COPPER	Silk Stigma Style		3.0		USDA's Ag Handbook 8 and sequelae)
35	BORNEOL	Silk Stigma Style				--
7	CYANIDIN	Flower				--
1	SERINE	Bulb				--
3	XANTHOPHYLL	Silk Stigma Style				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	LEUCINE	Bulb				--
34	MYRICETIN	Flower				Abstract (See species file)
53	BETA-CAROTENE	Silk Stigma Style				--
7	SALICYLATES	Silk Stigma Style		0.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	CROCIN	Tissue Culture				--
5	SABINENE	Silk Stigma Style				--
7	HISTIDINE	Bulb				--
14	MANGANESE	Silk Stigma Style		284.0	1.0	USDA's Ag Handbook 8 and sequelae)
64	OLEANOLIC-ACID	Silk Stigma Style				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	CROCIN	Flower				--
13	BETA-PINENE	Silk Stigma Style				--
8	STEARIC-ACID	Silk Stigma Style				--
12	GLYCINE	Bulb				--
16	LYCOPENE	Silk Stigma Style				--
28	ALPHA-PINENE	Silk Stigma Style				--
8	GLUTAMIC-ACID	Bulb				--
7	LAURIC-ACID	Silk Stigma Style				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	VALINE	Bulb				--
67	1,8-CINEOLE	Silk Stigma Style				--
5	BETA-PHENYLETHANOL	Silk Stigma Style				--
7	GLUCOSE	Bulb				--
75	KAEMPFEROL	Flower				--
8	TYROSINE	Bulb				--
7	ASTRAGALIN	Flower				--