

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Nigella sativa*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	24-ETHYL-LOPHENOL	Seed Oil				--
0	24-METHYL-LOPHENOL	Seed Oil				--
5	24-METHYLENE-CYCLOARTANOL	Seed Oil				--
0	5-DEHYDRO-AVENASTEROL	Seed Oil				--
0	7-DEHYDRO-AVENASTEROL	Seed Oil				--
3	ALANINE	Seed	8000.0	10255.0	0.020997940933240138	--
2	ALPHA-SPINASTEROL	Seed Oil				--
2	ALPHA-SPINASTEROL	Seed				--
0	ARABIC-ACID	Seed				--
0	ARACHIDIC-ACID	Seed Oil		1900.0	-1.2808213362473546	--
12	ARACHIDONIC-ACID	Seed Oil		24900.0	1.0	--
14	ARGININE	Seed	41500.0	53050.0	1.2029671680482314	--
112	ASCORBIC-ACID	Leaf		2577.0	-0.20480733468379336	--
0	ASH	Seed	38000.0	53000.0	0.15399404750455267	--
2	ASPARAGINE	Seed		0.0	-1.0	--
3	ASPARTIC-ACID	Seed	10670.0	13650.0	-0.793562134888723	--
7	ASTRAGALIN	Seed		200.0	0.9999999999999999	--
9	BETA-AMYRIN	Seed Oil				--
47	BETA-SITOSTEROL	Seed		3218.0	0.6038687377128678	--
47	BETA-SITOSTEROL	Seed Oil				--
0	BUTYROSPERMOL	Seed Oil				--
28	CALCIUM	Seed		10600.0	1.185251516140852	--
0	CAMPESTANOL	Seed Oil				--
2	CAMPESTEROL	Seed Oil				--
2	CAMPESTEROL	Seed				--
0	CARBOHYDRATES	Seed		339600.0	-0.7304674205410945	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
19	CARVONE	Seed	2250.0	9600.0	-0.6862496231316305	--
19	CARVONE	Seed Essent. Oil				--
1	CHOLESTEROL	Seed Oil				--
1	CHOLESTEROL	Seed				--
1	CITROSTADIENOL	Seed Oil				--
7	CYCLOARTENOL	Seed Oil				--
3	CYCLOEUCALENOL	Seed Oil				--
0	CYMENE	Seed				--
2	CYSTINE	Seed				--
19	D-LIMONENE	Seed				--
2	DAMASCENINE	Plant				--
0	DEHYDROASCORBIC-ACID	Leaf		295.0		--
0	DITHYMOQUINONE	Seed Oil				--
0	EICOSADIENOIC-ACID	Seed	8979.0	10525.0	1.0	--
0	EICOSADIENOIC-ACID	Seed Oil		25000.0		--
0	EO	Seed	4000.0	16000.0	-0.3482296375405711	--
0	EO	Seed Oil		4500.0		--
0	FAT	Seed	354900.0	416000.0	0.7933294308711564	--
15	FIBER	Seed		55000.0	-0.6299472095675233	--
0	FIXED-OIL	Seed		380000.0	0.7938038750907974	--
7	GLUCOSE	Seed				--
8	GLUTAMIC-ACID	Seed	28085.0	35900.0	-0.24526461038526376	--
12	GLYCINE	Seed	8840.0	20700.0	1.4093637414578815	--
0	GRAMISTEROL	Seed Oil				--
9	hederagenin	Seed		10000.0		--
7	INDOLE-3-ACETIC-ACID	Tissue Culture		14.0		--
6	IRON	Seed		140.0	-0.050148065262521205	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	ISOLEUCINE	Seed	8570.0	10960.0	0.05977431737810226	--
0	KAEMPFEROL-3-O-BETA-GLUCOPYRANOSYL-(1,2)-O-BETA-GALACTOPYRANOSYL-(1,2)-BETA-GLUCOPYRANOSIDE	Seed		100.0		--
2	LEUCINE	Seed	23130.0	29595.0	1.1977821961803903	--
27	LINOLEIC-ACID	Seed	128124.0	233459.0	1.0824662737938955	--
27	LINOLEIC-ACID	Seed Oil	487600.0	576300.0	0.7282570051649796	--
0	LINOLENIC-ACID	Seed	2484.0	2912.0	-0.5290258499227667	--
0	LINOLENIC-ACID	Seed Oil	5700.0	7000.0	-0.9728331838140885	--
0	LIPASE	Seed				--
0	LOPHENOL	Seed Oil				--
4	LYSINE	Seed	16200.0	20700.0	1.1651039918885149	--
0	MELANTHIGENIN	Seed				--
0	MELANTHIN	Seed		15000.0		--
0	MELANTHIN	Plant		15000.0		--
15	METHIONINE	Seed	13100.0	16750.0	3.2110061010876816	--
6	MYRISTIC-ACID	Seed	567.0	1082.0	-0.2818389018415849	--
6	MYRISTIC-ACID	Seed Oil	1900.0	18000.0	1.404878717372541	--
0	NIGELLCINE	Seed				--
0	NIGELLIDINE	Seed				--
0	NIGELLIMINE	Seed		0.13		--
0	NIGELLIMINE-N-OXIDE	Seed		0.2		--
0	NIGELLIN	Seed				--
0	NIGELLINE	Seed Essent. Oil				--
4	NIGELLONE	Plant				--
4	NIGELLONE	Seed Essent. Oil				--
4	NIGELLONE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OBTUSIFOLIOL	Seed Oil				--
18	OLEIC-ACID	Seed Oil	244600.0	262400.0	-0.3071795173799937	--
18	OLEIC-ACID	Seed	89911.0	184912.0	0.5409849990838309	--
13	PALMITIC-ACID	Seed	22464.0	50523.0	0.3428523734085393	--
13	PALMITIC-ACID	Seed Oil	120000.0	171200.0	-0.07081453176760302	--
2	PALMITOLEIC-ACID	Seed Oil		2000.0	-0.7427413770332781	--
7	PHENYLALANINE	Seed	16850.0	21560.0	1.1965145457535273	--
2	PHYTOSTEROLS	Seed		5100.0	0.7509831240988885	--
14	POTASSIUM	Seed		5820.0	-0.5936234706928918	--
0	PROLINE	Seed	11350.0	14520.0	0.6255535812768888	--
0	PROTEIN	Seed	210000.0	271900.0	0.3389542125628668	--
2	QUERCETIN-3'-GLUCOSIDE	Seed		440.0		--
0	QUERCETIN-3-O-(6-FERULOYL-BETA-GLUCOPYRANOSYL)-(1,2)-BETA-GALACTOPYRANOSYL-(1,2)-BETA-GLUCOPYRANOSIDE	Seed		240.0		--
0	QUERCETIN-3-O-BETA-GLUCOPYRANOSYL-(1,2)-O-BETA-GALACTOPYRANOSYL-(1,2)-BETA-GLUCOPYRANOSIDE	Seed		1380.0		--
0	RESIN	Seed				--
87	RUTIN	Seed		200.0	-0.8642978830410316	--
1	SERINE	Seed	4210.0	5385.0	-0.9945334501663213	--
1	SODIUM	Seed		980.0	0.8399533537817474	--
8	STEARIC-ACID	Seed	8722.0	10192.0	-0.3442582492571594	--
8	STEARIC-ACID	Seed Oil	18100.0	60400.0	-0.4460212029284245	--
0	STIGMAST-7-EN-3-BETA-OL	Seed Oil				--
0	STIGMASTANOL	Seed Oil				--
12	STIGMASTEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
12	STIGMASTEROL	Seed Oil				--
35	TANNIN	Seed				--
2	TARAXEROL	Seed Oil				--
0	TELFAIRIC-ACID	Seed Oil				--
4	THREONINE	Seed	2615.0	3345.0	-1.0720451105922753	--
8	THYMOHYDROQUINONE	Seed				--
71	THYMOL	Seed Oil				--
16	THYMOQUINONE	Seed Oil				--
16	THYMOQUINONE	Seed				--
16	THYMOQUINONE	Seed Essent. Oil				--
0	TIRUCALLOL	Seed Oil				--
29	TRYPTOPHAN	Seed				--
8	TYROSINE	Seed	12925.0	16530.0	2.035948584281161	--
3	VALINE	Seed	6500.0	8325.0	-0.45403308662925973	--
0	WATER	Seed		55000.0	-0.6623654398299681	--