

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Brassica nigra

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WATER	Leaf	930030.0	933900.0	0.6299204344560746	USDA's Ag Handbook 8 and sequelae)
0	CARBOHYDRATES	Leaf	34100.0	502209.0	-0.8719300205826715	USDA's Ag Handbook 8 and sequelae)
0	PROTEIN	Leaf	23650.0	385190.0	1.7292833727478136	USDA's Ag Handbook 8 and sequelae)
0	FAT	Seed	282000.0	305195.0	0.20967986101223723	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CARBOHYDRATES	Seed	192000.0	207792.0	-1.2542990410914794	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	MUCILAGE	Seed		200000.0	0.01650166098259861	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Seed	110000.0	119048.0	-0.12421326269528561	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Leaf	8000.0	117820.0	-0.540585118579396	USDA's Ag Handbook 8 and sequelae)
0	ASH	Leaf	5830.0	99722.0	-0.3370416936919234	USDA's Ag Handbook 8 and sequelae)
0	WATER	Seed		76000.0	-0.5817796800440428	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Seed	50000.0	54112.0	0.18744037202481786	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Leaf	2220.0	46841.0	-0.1917178251748026	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Leaf	1485.0	28215.0	-0.09401527703835375	USDA's Ag Handbook 8 and sequelae)
14	ARGININE	Leaf	1810.0	26657.0	0.5087991947733539	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Leaf	1320.0	19440.0	3.1741271951746977	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Leaf	1107.0	17867.0	-0.03895910092928099	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	LYSINE	Leaf	1130.0	16642.0	0.8594897106494074	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Leaf	970.0	14286.0	0.4466322316135545	USDA's Ag Handbook 8 and sequelae)
3	ISOLEUCINE	Leaf	910.0	13402.0	0.3446848174545089	USDA's Ag Handbook 8 and sequelae)
7	SINIGRIN	Seed	10000.0	12000.0	1.0000000000000002	--
0	EO	Seed	7000.0	12000.0	-0.39879727889818234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
16	ALLYL-ISOTHIOCYANATE	Seed	6510.0	11760.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	ERUCIC-ACID	Leaf	770.0	11340.0	0.9749286383095918	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Leaf	760.0	11192.0	-0.819526492144372	USDA's Ag Handbook 8 and sequelae)
0	SINAPIN	Seed		10000.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	THREONINE	Leaf	660.0	9720.0	-0.023257652960522495	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Leaf	660.0	9720.0	-0.1435161264489536	USDA's Ag Handbook 8 and sequelae)
0	MYROSIN	Seed		6800.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	HISTIDINE	Leaf	450.0	6627.0	0.6276673545987139	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Leaf	370.0	5449.0	2.1351105505350065	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Leaf	290.0	4563.0	-0.07515031705791066	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Leaf	274.0	4506.0	0.15301169936603431	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Leaf	234.0	4013.0	-0.07156483307262614	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Leaf	270.0	3976.0	-0.7105758651281813	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	TRYPTOPHAN	Leaf	270.0	3976.0	0.9918339597248005	USDA's Ag Handbook 8 and sequelae)
0	GADOLEIC-ACID	Leaf	260.0	3829.0	0.07894192604291442	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Leaf	240.0	3535.0	-0.6415507174060238	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Leaf	230.0	3387.0	0.24940233291075833	USDA's Ag Handbook 8 and sequelae)
0	KILOCALORIES	Leaf	200.0	2946.0	-0.11619018899047374	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Leaf	200.0	2945.0	-0.25402185393237836	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Leaf	132.0	2471.0	-0.6389529090097905	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Leaf	60.0	884.0	-0.3738525527818623	USDA's Ag Handbook 8 and sequelae)
0	LINOLENIC-ACID	Leaf		480.0	-0.40753237631529177	--
53	BETA-CAROTENE	Leaf	29.0	475.0	0.930660444061161	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Leaf	20.0	294.0	-0.43029003309567143	USDA's Ag Handbook 8 and sequelae)
6	IRON	Leaf	12.0	209.0	-0.3908179981972661	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Leaf	10.0	147.0	-0.480150098514262	USDA's Ag Handbook 8 and sequelae)
0	QUERCETIN-3-ALPHA-L-(2-O-ALPHA-L-RHAMNOPYRANISIDO-ARABO-PYRANOSIDE)	Seed		114.0		--
14	MANGANESE	Leaf	3.0	53.0	-0.3717755859373686	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Leaf	3.03	47.87	-0.6036882923547856	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Leaf	2.0	40.0	-0.28128739889673965	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Leaf	0.58	11.2	-0.4528977655356585	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Leaf	0.56	9.72	-0.1322991630269135	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Leaf	0.44	7.66	-0.13434936874443595	USDA's Ag Handbook 8 and sequelae)
5	PHYLLOQUINONE	Flower	0.57	3.39		--
11	PANTOTHENIC-ACID	Leaf	0.19	2.79	-0.9329367522301226	USDA's Ag Handbook 8 and sequelae)
0	3-SOPHOROSIDE-ISORHAMNETIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-METHYL-BUTYL-GLUCOSINOLATE	Leaf				--
0	KAEMPFEROL-3-SOPHOROSIDE-7-GLUCOSIDE	Leaf				--
0	ALLYL-CYANIDE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-O-BETA-D-GLUCOSIDE-ISORHAMNETIN	Leaf				--
0	2-BUTYL-GLUCOSINOLATE	Leaf				--
0	KAEMPFEROL-3-SINAPOYL-SOPHOROSIDE	Leaf				--
0	3,7-DIGLUCOSIDE-ISORHAMNETIN	Leaf				--
61	FERULIC-ACID	Seed				Jim Duke's personal files.
2	S-METHYL-CYSTEINE-SULFOXIDE	Fruit				--
102	CAFFEIC-ACID	Seed				Jim Duke's personal files.
0	KAEMPFEROL-3-O-BETA-D-SOPHOROSIDE	Leaf				--
4	2-PHENYLETHYL-ISOTHIOCYANATE	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
24	VANILLIC-ACID	Seed				Jim Duke's personal files.
9	SINAPIC-ACID	Seed				Jim Duke's personal files.
0	2,4-METHYLENE-CHOLESTEROL	Pollen Or Spore				--
25	P-COUMARIC-ACID	Seed				Jim Duke's personal files.
0	KAEMPFEROL-3-FERULOYL-SOPHOROSIDE	Leaf				--
0	SINAPINE	Seed				--
6	QUERCIMERITRIN	Leaf				--
0	KAEMPFEROL-3,7-DIGLUCOSIDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PROGOITRIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
43	PROTocatechuic-acid	Seed				Jim Duke's personal files.
0	QUERCETIN-3-SOPHOROSIDE-7-GLUCOSIDE	Leaf				--
2	NONACOSANE	Leaf				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
22	ISOQUERCITRIN	Leaf				--
0	QUERCETIN-3-SOPHOROSIDE	Leaf				--
0	ISOPROPYLISOTHIOCYANATE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	ISOPROPYL-GLUCOSINOLATE	Leaf				--
0	TRANS-CINNAMIC-ACID	Seed				Jim Duke's personal files.
0	GLUCOPUTRANJIVIN	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
7	ASTRAGALIN	Leaf				--
0	HYDROXYBENZOIC-ACID	Seed				Jim Duke's personal files.
0	QUERCETIN-3,7-DIGLUCOSIDE	Leaf				--

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0	GLUCONASTURTIIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	ALLYL-THIOCYANATE	Seed				--
0	3-METHYLTHIOPROPYL-GLUCOSINOLATE	Seed				--
0	PHENYLETHYL-ISOTHIOCYANATE	Seed				--
77	CHLOROGENIC-ACID	Seed				Jim Duke's personal files.
0	POPULNIN	Leaf				--
1	GLUCONAPIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	MESOINOSITOL-HEXAPHOSPHORIC-ACID-ESTER	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALLYL-RHODANIDE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-SOPHOROSIDE-7-GLUCOSIDE-ISORHAMNETIN	Leaf				--
0	2-PHENYLETHYL-GLUCOSINOLATE	Seed				--