

Dr. Duke's Phytochemical and Ethnobotanical Databases
Chemicals found in Brassica napus var. napobrassica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FIBER	Root	11000.0	106370.0	0.40548188259817086	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Root	2200.0	43850.0	2.0554708036839013	--
14	ARGININE	Root	1480.0	14310.0	0.17714518801318105	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Root	1420.0	13730.0	-0.12656879284513156	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Root	880.0	8800.0	1.4969964331379306	USDA's Ag Handbook 8 and sequelae)
3	ASPARTIC-ACID	Root	870.0	8410.0	-0.20068380455090434	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Root	290.0	7250.0	0.6557923409686905	--
28	CALCIUM	Root	270.0	6040.0	-0.14925166659847308	--
14	SULFUR	Root	350.0	5000.0	0.6721985672075504	ACTA AGRIC SCAND SUPPL 22: 1980
3	ISOLEUCINE	Root	500.0	4835.0	0.7114548943031703	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Root	480.0	4640.0	0.3309238530229536	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Root	460.0	4445.0	0.22067202021034055	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Root	390.0	3770.0	0.029990875485301268	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Root	380.0	3675.0	-0.3939386812418397	USDA's Ag Handbook 8 and sequelae)
1	SERINE	Root	350.0	3385.0	0.012451729341143537	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Root	350.0	3385.0	0.09816926627523243	USDA's Ag Handbook 8 and sequelae)
3	ALANINE	Root	330.0	3190.0	-0.12401447431860009	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Root	310.0	3000.0	0.09680714819601026	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Root	300.0	2900.0	1.0788641098044627	USDA's Ag Handbook 8 and sequelae)
12	GLYCINE	Root	270.0	2610.0	-0.1322498781605236	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Root	110.0	2610.0	0.025782666729043294	--
13	MUFA	Root	250.0	2500.0	0.07398045035870428	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Root	250.0	2415.0	0.12622998370595992	USDA's Ag Handbook 8 and sequelae)

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112	ASCORBIC-ACID	Root	250.0	2415.0	0.7345478536486332	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Root	240.0	2320.0	-0.291367632582844	USDA's Ag Handbook 8 and sequelae)
8	TYROSINE	Root	230.0	2225.0	0.3484594002519018	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Root	200.0	1930.0	0.3858644625823273	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Root	130.0	1255.0	1.3418488078003312	USDA's Ag Handbook 8 and sequelae)
2	CYSTINE	Root	110.0	1065.0	0.41416520648682914	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Root	100.0	965.0	-0.19695207353540853	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Root	30.0	290.0	-0.18860255369586548	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Root	7.0	68.0	0.5147577614900641	USDA's Ag Handbook 8 and sequelae)
6	IRON	Root	2.0	62.0	-0.3515801948569051	--
4	BORON	Leaf		52.0	-0.2521054051389519	--
77	ZINC	Root	1.7	33.0	0.38637779530428495	USDA's Ag Handbook 8 and sequelae)
4	BORON	Root	2.5	30.0	0.2199887387786964	ACTA AGRIC SCAND SUPPL 22: 1980
4	SILICON	Root	1.0	30.0	-0.20509399754262064	ACTA AGRIC SCAND SUPPL 22: 1980
4	BORON	Stem		24.0	-0.5283308037270876	--
14	MANGANESE	Root	1.3	17.0	-0.342877544388157	ACTA AGRIC SCAND SUPPL 22: 1980
11	PANTOTHENIC-ACID	Root	2.0	15.0	-0.35963628154828453	USDA's Ag Handbook 8 and sequelae)
31	THIAMIN	Root	1.0	9.0	0.20687378151698016	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Root	0.4	4.0	-0.0163136920018201	USDA's Ag Handbook 8 and sequelae)
12	COPPER	Root	0.2	4.0	-0.8547042082668113	ACTA AGRIC SCAND SUPPL 22: 1980
15	FOLACIN	Root	0.18	2.0	-0.5271708591989388	USDA's Ag Handbook 8 and sequelae)
5	ALUMINUM	Root	0.3	1.0	-0.31194365262523716	ACTA AGRIC SCAND SUPPL 22: 1980
3	NICKEL	Root	0.02	1.0	-0.6074520694182507	ACTA AGRIC SCAND SUPPL 22: 1980
2	MOLYBDENUM	Leaf		0.65	-0.7555970707143209	--

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2	MOLYBDENUM	Stem		0.32	-0.6821525679507198	--
24	CHROMIUM	Root	0.005	0.1	-0.5400069758594586	ACTA AGRIC SCAND SUPPL 22: 1980
2	MOLYBDENUM	Root		0.1	-0.46089530570591497	ACTA AGRIC SCAND SUPPL 22: 1980
3	CADMIUM	Root	0.004	0.1	-0.7647786809084502	ACTA AGRIC SCAND SUPPL 22: 1980
2	COBALT	Root	0.001	0.1	-0.5430381312407203	ACTA AGRIC SCAND SUPPL 22: 1980
60	SELENIUM	Leaf		0.031	-0.3801649499638808	--
5	PHYLLOQUINONE	Root		0.02	1.0	--
60	SELENIUM	Stem		0.017	-0.428602555754419	--
1	MERCURY	Root	0.0	0.01	-0.4761926805350732	ACTA AGRIC SCAND SUPPL 22: 1980
2	ARSENIC	Root		0.01	-0.20704596077537676	ACTA AGRIC SCAND SUPPL 22: 1980
60	SELENIUM	Root		0.002	-0.3623106990048751	ACTA AGRIC SCAND SUPPL 22: 1980
7	SALICYLATES	Root		0.0	-0.6998023989548637	--
53	BETA-CAROTENE	Root		0.0	-0.4364222203358877	USDA's Ag Handbook 8 and sequelae)
12	ALLANTOIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	NEOGLUCOBRASSICIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	GLUCOBRASSICIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	GLUCOBRASSICANAPIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

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2	CAMPESTEROL	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	BRASSINOLIDE	Pollen Or Spore				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
16	LYCOPENE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.