

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Ribes nigrum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Fruit	5500.0	13800.0	1.0	--
7	(+)-GALLOCATECHIN	Fruit				--
0	(+)-HARDWICKIIC ACID	Bud				--
0	(+)-SPATHULENOL	Bud				--
67	1,8-CINEOLE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-METHYL-4-ISOPROPYLBENZOL	Plant				--
0	1-PENTEN-3-OL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-BUTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-BUTANONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-HEXENAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYL-3-BUTEN-2-OL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-METHYL-PROPANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-PENTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-METHYL-2-BUTEN-1-OL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-METHYL-BUTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	ACETALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
16	ACETIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ACETONE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALPHA-ALANINE	Fruit Juice		210.0		--
15	ALPHA-LINOLENIC-ACID	Seed Essent. Oil		120000.0		--
15	ALPHA-LINOLENIC-ACID	Seed Oil				--
15	ALPHA-LINOLENIC-ACID	Fruit	720.0	3988.0	0.6535435807651567	USDA's Ag Handbook 8 and sequelae)
28	ALPHA-PINENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	ALPHA-PINENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	ALPHA-TERPINENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	ALPHA-TERPINEOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	ALPHA-TOCOPHEROL	Fruit	22.0	120.0	0.7254612491691786	--
5	ALUMINUM	Fruit	3.0	65.0	-0.2046115023876262	ACTA AGRIC SCAND SUPPL 22: 1980
30	ANTHOCYANINS	Fruit	10000.0	40000.0	1.0	--
0	ANTHOCYANOSIDES	Fruit		3000.0	-1.0	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
14	ARGININE	Fruit Juice		35.0		--
2	ARSENIC	Fruit	0.01	0.06	-0.46003213545175	ACTA AGRIC SCAND SUPPL 22: 1980
112	ASCORBIC-ACID	Leaf				--
112	ASCORBIC-ACID	Fruit	150.0	10030.0	0.3391462316019611	--
0	ASH	Fruit	8050.0	61100.0	0.11487797078072934	--
2	ASPARAGINE	Fruit Juice		87.0		--
3	ASPARTIC-ACID	Fruit Juice		23.0		--
7	ASTRAGALIN	Fruit Juice				--
7	ASTRAGALIN	Leaf				--
24	BENZALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	BETA-ALANINE	Fruit Juice		12.0		--
53	BETA-CAROTENE	Fruit	1.0	8.0	-0.1353367732684366	USDA's Ag Handbook 8 and sequelae)
0	BETA-OCIMENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	BETA-PHELLANDRENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	BETA-PHELLANDRENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	BETA-PHELLANDRENE	Bud				--
13	BETA-PINENE	Fruit		130000.0	3.8670699671319455	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	BORON	Fruit	1.0	64.0	0.4846568688508411	--
0	BROMINE	Fruit		1.0	-0.42563543443835	ACTA AGRIC SCAND SUPPL 22: 1980
0	BUTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTYL-ACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BUTYL-FORMIATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	BUTYRALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	CADMIUM	Fruit	0.001	0.01	-0.6142357150186111	ACTA AGRIC SCAND SUPPL 22: 1980
102	CAFFEIC-ACID	Fruit				--
28	CALCIUM	Fruit	502.0	4720.0	0.1993108709232679	--
0	CALCIUM-PECTATE	Fruit	9000.0	17000.0	-0.4368211543046611	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	CAMPHENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CAR-3-ENE	Bud				--
0	CARBOHYDRATES	Fruit	153800.0	852050.0	0.3698785649141745	USDA's Ag Handbook 8 and sequelae)
0	CAREN-3	Leaf		38.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	CARYOPHYLLENE	Leaf		34.0	-0.6484758776339403	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	CARYOPHYLLENE	Fruit		119000.0	3.1497138144144925	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CELLULOSE	Fruit				--
77	CHLOROGENIC-ACID	Fruit				--
24	CHROMIUM	Fruit	0.01	0.27	-0.46970952066350025	ACTA AGRIC SCAND SUPPL 22: 1980
18	CINNAMIC-ACID	Fruit				--
0	CIS-BETA-OCIMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CIS-HEX-3-EN-1-OL	Plant				--
23	CITRIC-ACID	Fruit		35000.0	-0.07872984738636099	--
15	CITRONELLOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CITRONELLYL-ACETATE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CITRONELLYL-ACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	COBALT	Fruit	0.002	0.027	-0.5318466177584126	ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Fruit	0.6	7.0	-0.45288591601748224	--
7	CYANIDIN	Plant				--
0	CYANIDIN-3-DIGLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CYANIDIN-3-GLUCOSIDE	Fruit				--
0	CYANIDIN-3-O-BETA-D-SOPHOROSIDE	Fruit Juice				--
0	CYANIDIN-3-O-RHAMNOSIDE	Fruit				--
1	CYANIDIN-3-RUTINOSIDE	Fruit				--
0	CYANIDIN-MONOGLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	CYANIN	Fruit				--
0	DACTYLIFRIC-ACID	Fruit				--
0	DEHYDROXY-METHYL FLAZIN	Fruit		0.38		--
9	DELPHINIDIN	Plant				--
0	DELPHINIDIN-3-DIGLUCOSIDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DELPHINIDIN-3-GLUCOSIDE	Fruit				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
0	DELPHINIDIN-3-O-BETA-D-SOPHOROSIDE	Fruit Juice				--
0	DELPHINIDIN-3-O-RHAMNOSIDE	Fruit				--
0	DELPHINIDIN-3-RUTINOSIDE	Fruit				--
8	DELTA-3-CARENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	DIOSPHENOL	Bud				--
0	EMULSIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EO	Bulb		7500.0	-0.3719457894724333	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	EO	Leaf		200.0	-0.99702714807754	--
6	EPIGALLOCATECHIN	Leaf				--
24	ETHANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	ETHYL-ACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	ETHYL-BENZOATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	ETHYL-BUTYRATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EUCARVONE	Bud				--
0	FAT	Seed	250000.0	305000.0	0.20865272626089487	--
0	FAT	Fruit	3150.0	27977.0	-0.42756601418508344	USDA's Ag Handbook 8 and sequelae)
61	FERULIC-ACID	Fruit				--
15	FIBER	Fruit	24000.0	133000.0	-0.08187450385949027	USDA's Ag Handbook 8 and sequelae)
0	FLAVONOIDS	Leaf		4600.0	-0.7749897228740793	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLAZIN METHYL ETHER	Fruit		0.34		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FLUORINE	Fruit	0.1	2.8	1.4296307542003595	ACTA AGRIC SCAND SUPPL 22: 1980
12	FORMALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	FORMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Fruit		36700.0	-0.34464105992956867	--
0	GALLOCATECHIN	Leaf				--
0	GALLOCATECHIN-(4-ALPHA-8)- GALLOCATECHIN-(4-ALPHA-8)- GALLOCATECHIN- GENTISIC-ACID	Fruit				--
1	GALLOCATECHIN-(4ALPHA->8)- EPIGALLOCATECHIN	Leaf				--
1	GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN	Leaf				--
1	GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN	Leaf				--
20	GAMMA-LINOLENIC-ACID	Seed	47500.0	57950.0	0.32865774651972557	--
20	GAMMA-LINOLENIC-ACID	Seed Essent. Oil		170000.0	0.4877131100041326	--
20	GAMMA-LINOLENIC-ACID	Seed Oil				--
8	GENTISIC-ACID	Fruit				--
35	GERANIOL	Leaf		12.0	-0.22490199642499295	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
35	GERANIOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	GLUCOSE	Fruit		23500.0	-0.6456924807905674	--

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8	GLUTAMIC-ACID	Fruit Juice		210.0		--
5	GLUTAMINE	Fruit Juice		290.0		--
0	GLYCOLLIC-ACID	Fruit				--
4	HARDWICKIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	HEXANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	HUMULENE	Leaf		4.0	-0.45322095661158035	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	HUMULENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	INDOLE-ACETIC-ACID	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	INVERT-SUGARS	Fruit	60000.0	80000.0	-1.049209219859784	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Fruit	11.0	108.0	-0.0990812909090042	USDA's Ag Handbook 8 and sequelae)
0	ISO-AMYBUTYRATE	Fruit				--
0	ISOAMYL-BUTYRATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISODIOSPHENOL	Bud				--
3	ISOLEUCINE	Fruit Juice		28.0		--
3	ISOMENTHONE	Bud				--
22	ISOQUERCITRIN	Fruit Juice				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	ISOQUERCITRIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	ISOQUERCITRIN	Leaf				--
75	KAEMPFEROL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
75	KAEMPFEROL	Fruit Juice				--
0	KAEMPFEROL-3-GLUCO-RHAMNOSIDE	Leaf				--
0	KAEMPFEROL-3-GLUCO-XYLOSIDE	Leaf				--
0	KAEMPFEROL-3-O-BETA-D-RUTOSIDE	Fruit Juice				--
0	LEAD	Fruit	0.04	0.6	-0.4548229499765365	ACTA AGRIC SCAND SUPPL 22: 1980
2	LEUCINE	Fruit Juice		28.0		--
60	LIMONENE	Leaf		7.0	-0.4404202146791783	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LINALOL	Leaf		7.0	-0.43845318464692984	--
53	LINALOOL	Leaf		7.0	-0.6425964378968151	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
27	LINOLEIC-ACID	Seed Essent. Oil		450000.0	-0.38185378196002584	--
27	LINOLEIC-ACID	Seed Oil				--
27	LINOLEIC-ACID	Fruit	1070.0	5928.0	-0.27176478274180926	USDA's Ag Handbook 8 and sequelae)
0	LINOLENIC-ACID	Seed Oil				--
15	LUTEIN	Fruit	4.4	22.0	1.0661490848102466	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	M-CYMOL	Leaf		3.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
65	MAGNESIUM	Fruit	220.0	1720.0	-0.18973196351432575	--
14	MANGANESE	Fruit	0.5	27.0	-0.22550301209784723	--
1	MERCURY	Fruit		0.01	-0.3661474335745678	ACTA AGRIC SCAND SUPPL 22: 1980
2	METHANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	METHYL-BENZOATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	METHYL-BUTYRATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	METHYL-N-HEXENOATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
21	METHYL-SALICYLATE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
21	METHYL-SALICYLATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	MOLYBDENUM	Fruit	0.1	0.6	-0.36498673733922654	ACTA AGRIC SCAND SUPPL 22: 1980
22	MYRCENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	MYRCENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
34	MYRICETIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
34	MYRICETIN	Fruit Juice				--
0	MYRICETIN-3-GLUCOSIDE	Leaf				--
0	MYRICETIN-3-O-BETA-D-GLUCOSIDE	Fruit Juice				--
2	NEO-CHLOROGENIC-ACID	Fruit				--
39	NIACIN	Fruit	3.0	17.0	-0.5841679380957736	USDA's Ag Handbook 8 and sequelae)
3	NICKEL	Fruit		0.101	-0.7487450285711046	ACTA AGRIC SCAND SUPPL 22: 1980
0	NITROGEN	Fruit	1800.0	12775.0	-0.12952772042220517	ACTA AGRIC SCAND SUPPL 22: 1980
0	NORVALINE	Fruit Juice		17.0		--
4	O-COUMARIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCT-1-EN-3-OL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTEN-1-OL-(3)	Leaf		13.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	OLEIC-ACID	Seed Essent. Oil		120000.0	-0.7071067811865472	--
18	OLEIC-ACID	Fruit	560.0	3102.0	-0.45683700824558143	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Seed Oil				--
9	OXALIC-ACID	Fruit		200.0	-0.29532056034744525	--
25	P-COUMARIC-ACID	Fruit				--
16	P-CYMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-CYMENOL-(4)	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	P-CYMOL	Leaf		3.0	-0.542974500379653	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	P-MENTH-1,8-DIEN-4-OL	Bud				--
0	P-METHYLISOPROPENYLBE NZOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Fruit	200.0	1108.0	-0.34828639336044304	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	70.0	388.0	-0.27451591357747396	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	4.0	22.0	0.24848336964903023	USDA's Ag Handbook 8 and sequelae)
24	PECTIN	Fruit				--
0	PECTINESTERASE	Fruit				--
0	PELARGONIDIN-3-O-BETA- D-RUTINOSIDE	Fruit Juice				--
0	PENTANAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PENTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Fruit	490.0	3500.0	0.08626372418040051	--
14	POTASSIUM	Fruit	3100.0	21110.0	0.2825398898770841	--
0	PROANTHOCYANIDIN- POLYMER	Leaf				--
0	PROANTHOCYANIDIN- POLYMER	Fruit				--
0	PROLINE	Fruit Juice		98.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROPANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Leaf		141700.0	-0.6997646435396685	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Fruit	12000.0	88640.0	-0.2796177988591396	USDA's Ag Handbook 8 and sequelae)
43	PROTocatechuic-acid	Fruit				--
28	Pulegone	Bud				--
176	Quercetin	Fruit Juice				--
176	Quercetin	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	Quercetin-3'-glucoside	Fruit				--
0	Quercetin-3-glucosylxyloside	Leaf				--
0	Quercetin-3-O-beta-D-rutinoside	Fruit Juice				--
44	Quercitrin	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	Quercitrin	Fruit Juice				--
1	Quinic-acid	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	Riboflavin	Fruit	1.0	3.0	-0.4303249009534089	USDA's Ag Handbook 8 and sequelae)
0	Rubidium	Fruit	1.0	28.0	0.675517753106432	ACTA AGRIC SCAND SUPPL 22: 1980
87	Rutin	Fruit				--
87	Rutin	Fruit Juice				--
87	Rutin	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Bud				--
4	SAKURANETIN	Leaf				--
7	SALICYLATES	Fruit	3.0	30.0	-0.2507181157512923	--
60	SELENIUM	Fruit		0.002	-0.38569128420884563	--
1	SERINE	Fruit Juice		60.0		--
4	SILICON	Fruit	10.0	220.0	0.1063310267247835	ACTA AGRIC SCAND SUPPL 22: 1980
1	SODIUM	Fruit	20.0	111.0	-0.17342478111859652	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Fruit	70.0	388.0	-0.2534900563026795	USDA's Ag Handbook 8 and sequelae)
0	STEARIDONIC ACID	Seed Essent. Oil		30000.0		--
0	STEARIDONIC ACID	Seed Oil				--
0	STYROL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	SUCROSE	Fruit		6200.0	-0.7028560356117206	--
0	SUGARS	Fruit	15800.0	106400.0	-0.4450056891324181	--
14	SULFUR	Fruit	200.0	1385.0	-0.02058118469316889	ACTA AGRIC SCAND SUPPL 22: 1980
6	SYRINGIC-ACID	Fruit				--
0	TANNINS	Leaf		85000.0	-0.12203041771161947	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERPINENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERPINENOL-(4)	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERPINENOL-(4)	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	TERPINOLENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	TERPINOLENE	Bud				--
31	THIAMIN	Fruit	1.0	3.0	-0.29859918253223444	USDA's Ag Handbook 8 and sequelae)
4	THREONINE	Fruit Juice		17.0		--
0	TRANS-BETA-OCIMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TRANS-CHLOROGENIC-ACID	Fruit				--
0	TRANS-HEX-2-EN-1-OL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	VALINE	Fruit Juice		170.0		--
0	VIT-B-6	Fruit	1.0	4.0	-0.7070236337221133	USDA's Ag Handbook 8 and sequelae)
0	VITAMIN-K-1	Fruit		10.1		--
0	WATER	Fruit	815220.0	824000.0	0.23229369814712902	USDA's Ag Handbook 8 and sequelae)
77	ZINC	Fruit	2.0	21.0	-0.27984522139310664	--