

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Ribes nigrum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Fruit	2.0	21.0	-0.27984522139310664	--
0	WATER	Fruit	815220.0	824000.0	0.23229369814712902	USDA's Ag Handbook 8 and sequelae)
0	VITAMIN-K-1	Fruit		10.1		--
0	VIT-B-6	Fruit	1.0	4.0	-0.7070236337221133	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Fruit Juice		170.0		--
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.
0	TRANS-CHLOROGENIC-ACID	Fruit				--
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.
4	THREONINE	Fruit Juice		17.0		--
31	THIAMIN	Fruit	1.0	3.0	-0.29859918253223444	USDA's Ag Handbook 8 and sequelae)
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				--
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.
0	TERPINENE	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	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.
6	SYRINGIC-ACID	Fruit				--
14	SULFUR	Fruit	200.0	1385.0	-0.02058118469316889	ACTA AGRIC SCAND SUPPL 22: 1980
0	SUGARS	Fruit	15800.0	106400.0	-0.4450056891324181	--
14	SUCROSE	Fruit		6200.0	-0.7028560356117206	--
0	STYROL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	STEARIDONIC ACID	Seed Essent. Oil		30000.0		--
0	STEARIDONIC ACID	Seed Oil				--
8	STEARIC-ACID	Fruit	70.0	388.0	-0.2534900563026795	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Fruit	20.0	111.0	-0.17342478111859652	USDA's Ag Handbook 8 and sequelae)
4	SILICON	Fruit	10.0	220.0	0.1063310267247835	ACTA AGRIC SCAND SUPPL 22: 1980
1	SERINE	Fruit Juice		60.0		--
60	SELENIUM	Fruit		0.002	-0.38569128420884563	--
7	SALICYLATES	Fruit	3.0	30.0	-0.2507181157512923	--
4	SAKURANETIN	Leaf				--
5	SABINENE	Bud				--
87	RUTIN	Leaf				--
87	RUTIN	Fruit				--
87	RUTIN	Fruit Juice				--
0	RUBIDIUM	Fruit	1.0	28.0	0.675517753106432	ACTA AGRIC SCAND SUPPL 22: 1980
15	RIBOFLAVIN	Fruit	1.0	3.0	-0.4303249009534089	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	QUINIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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				--
0	QUERCETIN-3-O-BETA-D-RUTOSIDE	Fruit Juice				--
0	QUERCETIN-3-GLUCOXYLOSIDE	Leaf				--
2	QUERCETIN-3'-GLUCOSIDE	Fruit				--
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.
28	PULEGONE	Bud				--
43	PROTocatechuic-ACID	Fruit				--
0	PROTEIN	Fruit	12000.0	88640.0	-0.2796177988591396	USDA's Ag Handbook 8 and sequelae)
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	PROPANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROLINE	Fruit Juice		98.0		--
0	PROANTHOCYANIDIN-POLYMER	Leaf				--
0	PROANTHOCYANIDIN-POLYMER	Fruit				--
14	POTASSIUM	Fruit	3100.0	21110.0	0.2825398898770841	--
4	PHOSPHORUS	Fruit	490.0	3500.0	0.08626372418040051	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PENTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PENTANAL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PELARGONIDIN-3-O-BETA-D-RUTINOSIDE	Fruit Juice				--
0	PECTINESTERASE	Fruit				--
24	PECTIN	Fruit				--
11	PANTOTHENIC-ACID	Fruit	4.0	22.0	0.24848336964903023	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	70.0	388.0	-0.27451591357747396	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Fruit	200.0	1108.0	-0.34828639336044304	USDA's Ag Handbook 8 and sequelae)
0	P-METHYLISOPROPENYL BENZYLALCOHOL	Fruit				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-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-CYMENOL-(4)	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
16	P-CYMENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	P-COUMARIC-ACID	Fruit				--
9	OXALIC-ACID	Fruit		200.0	-0.29532056034744525	--
18	OLEIC-ACID	Seed Essent. Oil		120000.0	-0.7071067811865472	--
18	OLEIC-ACID	Seed Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Fruit	560.0	3102.0	-0.45683700824558143	USDA's Ag Handbook 8 and sequelae)
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.
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.
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	NORVALINE	Fruit Juice		17.0		--
0	NITROGEN	Fruit	1800.0	12775.0	-0.12952772042220517	ACTA AGRIC SCAND SUPPL 22: 1980
3	NICKEL	Fruit		0.101	-0.7487450285711046	ACTA AGRIC SCAND SUPPL 22: 1980
39	NIACIN	Fruit	3.0	17.0	-0.5841679380957736	USDA's Ag Handbook 8 and sequelae)
2	NEO-CHLOROGENIC-ACID	Fruit				--
0	MYRICETIN-3-O-BETA-D-GLUCOSIDE	Fruit Juice				--
0	MYRICETIN-3-GLUCOSIDE	Leaf				--
34	MYRICETIN	Fruit Juice				--
34	MYRICETIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
2	MOLYBDENUM	Fruit	0.1	0.6	-0.36498673733922654	ACTA AGRIC SCAND SUPPL 22: 1980

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
2	METHYL-BUTYRATE	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	METHANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	MERCURY	Fruit		0.01	-0.3661474335745678	ACTA AGRIC SCAND SUPPL 22: 1980
14	MANGANESE	Fruit	0.5	27.0	-0.22550301209784723	--
65	MAGNESIUM	Fruit	220.0	1720.0	-0.18973196351432575	--
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.
15	LUTEIN	Fruit	4.4	22.0	1.0661490848102466	--
0	LINOLENIC-ACID	Seed Oil				--
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)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	LINALOL	Leaf		7.0	-0.43845318464692984	--
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.
2	LEUCINE	Fruit Juice		28.0		--
0	LEAD	Fruit	0.04	0.6	-0.4548229499765365	ACTA AGRIC SCAND SUPPL 22: 1980
0	KAEMPFEROL-3-O-BETA-D-RUTOSIDE	Fruit Juice				--
0	KAEMPFEROL-3-GLUCOXYLOSIDE	Leaf				--
0	KAEMPFEROL-3-GLUCORHAMNOSIDE	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				--
22	ISOQUERCITRIN	Fruit Juice				--
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				--
3	ISOMENTHONE	Bud				--
3	ISOLEUCINE	Fruit Juice		28.0		--
0	ISODIOSPHENOL	Bud				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	ISO-AMYBUTYRATE	Fruit				--
6	IRON	Fruit	11.0	108.0	-0.0990812909090042	USDA's Ag Handbook 8 and sequelae)
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.
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.
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.
3	HEXANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	HARDWICKIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GLYCOLLIC-ACID	Fruit				--
5	GLUTAMINE	Fruit Juice		290.0		--
8	GLUTAMIC-ACID	Fruit Juice		210.0		--
7	GLUCOSE	Fruit		23500.0	-0.6456924807905674	--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	GERANIOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GENTISIC-ACID	Fruit				--
20	GAMMA-LINOLENIC-ACID	Seed Oil				--
20	GAMMA-LINOLENIC-ACID	Seed	47500.0	57950.0	0.32865774651972557	--
20	GAMMA-LINOLENIC-ACID	Seed Essent. Oil		170000.0	0.4877131100041326	--
1	GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN	Leaf				--
1	GALLOCATECHIN-(4ALPHA->8)- GALLOCATECHIN	Leaf				--
1	GALLOCATECHIN-(4ALPHA->8)- EPIGALLOCATECHIN	Leaf				--
0	GALLOCATECHIN-(4- ALPHA-8)- GALLOCATECHIN-(4- ALPHA-8)- GALLOCATECHIN- GENTISIC-ACID	Fruit				--
0	GALLOCATECHIN	Leaf				--
8	FRUCTOSE	Fruit		36700.0	-0.34464105992956867	--
13	FORMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	FORMALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLUORINE	Fruit	0.1	2.8	1.4296307542003595	ACTA AGRIC SCAND SUPPL 22: 1980
0	FLAZIN METHYL ETHER	Fruit		0.34		--
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FIBER	Fruit	24000.0	133000.0	-0.08187450385949027	USDA's Ag Handbook 8 and sequelae)
61	FERULIC-ACID	Fruit				--
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)
0	EUCARVONE	Bud				--
1	ETHYL-BUTYRATE	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.
6	ETHYL-ACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	ETHANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	EPIGALLOCATECHIN	Leaf				--
0	EO	Leaf		200.0	-0.99702714807754	--
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	EMULSIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	DIOSPHENOL	Bud				--
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.
0	DELPHINIDIN-3-RUTINOSIDE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELPHINIDIN-3-O-RHAMNOSIDE	Fruit				--
0	DELPHINIDIN-3-O-BETA-D-SOPHOROSIDE	Fruit Juice				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Fruit				--
1	DELPHINIDIN-3-GLUCOSIDE	Fruit				--
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.
9	DELPHINIDIN	Plant				--
0	DEHYDROXY-METHYL FLAZIN	Fruit		0.38		--
0	DACTYLIFRIC-ACID	Fruit				--
5	CYANIN	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.
1	CYANIDIN-3-RUTINOSIDE	Fruit				--
0	CYANIDIN-3-O-RHAMNOSIDE	Fruit				--
0	CYANIDIN-3-O-BETA-D-SOPHOROSIDE	Fruit Juice				--
0	CYANIDIN-3-GLUCOSIDE	Fruit				--
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.
7	CYANIDIN	Plant				--
12	COPPER	Fruit	0.6	7.0	-0.45288591601748224	--
2	COBALT	Fruit	0.002	0.027	-0.5318466177584126	ACTA AGRIC SCAND SUPPL 22: 1980
2	CITRONELLYL-ACETATE	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
2	CITRONELLYL-ACETATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	CITRONELLOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	CITRIC-ACID	Fruit		35000.0	-0.07872984738636099	--
2	CIS-HEX-3-EN-1-OL	Plant				--
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.
18	CINNAMIC-ACID	Fruit				--
24	CHROMIUM	Fruit	0.01	0.27	-0.46970952066350025	ACTA AGRIC SCAND SUPPL 22: 1980
77	CHLOROGENIC-ACID	Fruit				--
1	CELLULOSE	Fruit				--
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.
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.
0	CARBOHYDRATES	Fruit	153800.0	852050.0	0.3698785649141745	USDA's Ag Handbook 8 and sequelae)
0	CAR-3-ENE	Bud				--
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	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.
28	CALCIUM	Fruit	502.0	4720.0	0.1993108709232679	--
102	CAFFEIC-ACID	Fruit				--
3	CADMIUM	Fruit	0.001	0.01	-0.6142357150186111	ACTA AGRIC SCAND SUPPL 22: 1980
2	BUTYRALDEHYDE	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.
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	BUTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BROMINE	Fruit		1.0	-0.42563543443835	ACTA AGRIC SCAND SUPPL 22: 1980
4	BORON	Fruit	1.0	64.0	0.4846568688508411	--
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.
3	BETA-PHELLANDRENE	Bud				--
3	BETA-PHELLANDRENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	BETA-PHELLANDRENE	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	BETA-OCIMENE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	BETA-CAROTENE	Fruit	1.0	8.0	-0.1353367732684366	USDA's Ag Handbook 8 and sequelae)
2	BETA-ALANINE	Fruit Juice		12.0		--
24	BENZALDEHYDE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	ASTRAGALIN	Fruit Juice				--
7	ASTRAGALIN	Leaf				--
3	ASPARTIC-ACID	Fruit Juice		23.0		--
2	ASPARAGINE	Fruit Juice		87.0		--
0	ASH	Fruit	8050.0	61100.0	0.11487797078072934	--
112	ASCORBIC-ACID	Fruit	150.0	10030.0	0.3391462316019611	--
112	ASCORBIC-ACID	Leaf				--
2	ARSENIC	Fruit	0.01	0.06	-0.46003213545175	ACTA AGRIC SCAND SUPPL 22: 1980
14	ARGININE	Fruit Juice		35.0		--
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.
30	ANTHOCYANINS	Fruit	10000.0	40000.0	1.0	--
5	ALUMINUM	Fruit	3.0	65.0	-0.2046115023876262	ACTA AGRIC SCAND SUPPL 22: 1980
32	ALPHA-TOCOPHEROL	Fruit	22.0	120.0	0.7254612491691786	--
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
13	ALPHA-TERPINENE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
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)
0	ALPHA-ALANINE	Fruit Juice		210.0		--
3	ACETONE	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.
6	ACETALDEHYDE	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.
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	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	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-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-HEXENAL	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-BUTANOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	1-METHYL-4-ISOPROPYLBENZOL	Plant				--
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	(+)-SPATHULENOL	Bud				--
0	(+)-HARDWICKIIC ACID	Bud				--
7	(+)-GALLOCATECHIN	Fruit				--
30	(+)-CATECHIN	Fruit	5500.0	13800.0	1.0	--