

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Hypericum perforatum*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROTEIN	Seed	181000.0	207000.0	-0.23836489772194505	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FLAVONOIDS	Shoot	70000.0	74000.0	1.9987386742212807	--
0	TANNINS	Plant	30000.0	160000.0	0.6335167585895222	--
0	NOVOIMANIN	Shoot	30000.0	40000.0		--
7	HYPERFORIN	Plant	20000.0	45000.0		--
18	MANNITOL	Plant	11000.0	20000.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
26	HYPERICIN	Plant	5000.0	7000.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
30	HYPEROSIDE	Shoot	5000.0	40000.0	1.0	--
14	HYPERIN	Plant	3500.0	5500.0		--
30	HYPEROSIDE	Plant	3500.0	20000.0	1.4142135623730945	--
44	QUERCITRIN	Shoot	3000.0	5240.0	-1.0	--
2	PSEUDOHYPERICIN	Flower	2260.0	5800.0		--
0	ADHYPERIFORIN	Plant	2000.0	19000.0		--
87	RUTIN	Leaf	2000.0	3000.0	-0.8182983793201679	--
87	RUTIN	Flower	1000.0	2800.0	-0.7206034752837803	--
26	HYPERICIN	Flower	860.0	18000.0		--
0	EO	Shoot	700.0	1250.0	-0.837336451901542	--
0	EO	Plant	500.0	9000.0	-0.05614454808389901	--
26	HYPERICIN	Shoot	390.0	1780.0		--
13	BETA-PINENE	Plant	335.0	6055.0	6.102304293563025	--
26	HYPERICIN	Leaf	190.0	1950.0		--
18	AMENTOFLAVONE	Flower	100.0	500.0		--
0	I3,I18-BIAPIGENIN	Flower	100.0	500.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HYPERICINS	Plant	95.0	4660.0		--
26	HYPERICIN	Stem	40.0	210.0		--
20	CHOLINE	Shoot	34.0	1000.0	0.572012868491687	--
31	CARYOPHYLLENE	Plant	26.0	468.0	0.04369118646892662	--
5	GERANYL-ACETATE	Plant	24.0	432.0	-0.046931008281076325	--
0	NONANE	Plant	23.0	414.0	1.7320463017310814	--
0	ALPHA-CUPRENENE	Plant	16.0	288.0		--
28	ALPHA-PINENE	Plant	13.0	245.0	-0.3080919122446896	--
22	MYRCENE	Plant	10.0	190.0	-0.26735798519548487	--
0	LEAD	Leaf	6.0	18.0	-0.2544918195433336	--
26	HYPERICIN	Flower Essent. Oil	5.0	19.0		--
60	LIMONENE	Plant	5.0	90.0	-0.43049106807161513	--
35	GERANIOL	Plant	4.0	72.0	-0.4372882513568854	--
0	LEAD	Root	4.0	5.0	0.5725881018723528	--
23	ALPHA-TERPINEOL	Plant	3.0	54.0	-0.43865827127528684	--
53	LINALOOL	Plant	2.5	45.0	-0.6582300842221918	--
0	ALPHA-EUDESOL	Plant	2.5	45.0		--
13	BETA-EUDESOL	Plant	2.0	32.0	-1.4039137909830484	--
0	LEAD	Plant	2.0	12.0	-0.2052748805139635	--
0	TERPINEOLENE	Plant	1.5	27.0	1.0	--
3	GUAJOL	Plant	1.5	27.0	-1.0	--
3	BETA-SELINENE	Plant	1.5	27.0	-0.500067830640769	--
11	GAMMA-TERPINENE	Plant	1.5	27.0	-0.5229803987451376	--
0	OCT-1-ENE	Plant	1.5	17.0		--
0	2,2-DIMETHYL-7-ISOBUTYL-2H,5H-PYRANO-(4,3-B)-PYRAN-5-ONE	Plant	1.5	27.0		--
0	GAMMA-EUDESOL	Plant	1.5	27.0	-1.0	--
3	ALPHA-SELINENE	Plant	1.0	18.0	-0.5867176918752404	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	6-METHYL-HEPT-5-EN-2-ONE	Plant	1.0	18.0		--
13	ALPHA-TERPINENE	Plant	1.0	18.0	-0.4744627215339312	--
9	CAMPHENE	Plant	1.0	18.0	-0.5750339250011366	--
3	CADMIUM	Root	1.0	3.0	2.1673447651974533	--
3	CADMIUM	Plant	1.0	5.0	1.706360614699241	--
5	NERYL-ACETATE	Plant	1.0	18.0	-0.5533167201767719	--
3	CADMIUM	Leaf	1.0	7.0	1.8579388000852974	--
10	NEROL	Plant	1.0	18.0	-0.4305189847416696	--
2	ALPHA-HUMULENE	Plant	1.0	18.0	-0.6057643151172428	--
0	2,2-DIMETHYL-7-SEC-BUTYL-2H,5H-PYRANO-(4,3-B)-PYRAN-5-ONE	Plant	1.0	18.0		--
23	TERPINEN-4-OL	Plant	0.5	9.0	-0.2775675416087286	--
0	ISHWARANE	Plant	0.5	9.0		--
16	P-CYMENE	Plant	0.5	9.0	-0.4179122586089107	--
6	CARYOPHYLENE-EPOXIDE	Plant	0.5	9.0		--
0	GAMMA-CURCUMENE	Plant	0.5	9.0		--
9	DELTA-CADINENE	Plant	0.5	9.0	-0.5016588984240995	--
3	AR-CURCUMENE	Plant	0.5	9.0	-0.5646161556334643	--
0	(E)-BETA-FARNESENE	Plant	0.5	9.0	-0.698672340478706	--
13	GERANIAL	Plant	0.35	6.3	-0.8448404627021195	--
4	NERAL	Plant	0.35	6.3	-0.7605971244477834	--
0	NEO-ALLOOCIMENE	Plant	0.3	5.4		--
11	ALPHA-PHELLANDRENE	Plant	0.3	5.4	-1.1319046038135718	--
0	METHYL-GERANATE	Plant	0.3	5.4		--
0	ALPHA-AMORPHENE	Plant	0.25	4.5	-1.0	--
0	(Z)-OCIMENE	Plant	0.25	4.5		--
0	6-METHYLHEPTAN-2,4-DIONE	Plant	0.25	4.5		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ELEMOL	Plant	0.25	4.5	-0.6106083925528936	--
0	5-METHYLHEPTAN-2,4-DIONE	Plant	0.25	4.5		--
5	BETA-ELEMENE	Plant	0.25	4.5	-0.4590469964746937	--
0	FENCHOL	Plant	0.25	4.5		--
0	BETA-BOURBONENE	Plant	0.25	4.5	-0.489936417763645	--
0	UNDECANE	Plant	0.25	4.5	1.6819265754924004	--
12	BORNYL-ACETATE	Plant	0.2	3.6	-0.46669902653977585	--
0	SELINA-4,11-DIENE	Plant	0.15	2.7	-1.0	--
35	BORNEOL	Plant	0.15	2.7	-0.6684962919153474	--
0	(E)-OCIMENE	Plant	0.1	2.25		--
0	ALPHA-TERPINYL-ACETATE	Plant	0.1	1.8	-0.6913759776083797	--
6	ACETOPHENONE	Plant	0.1	2.25	-1.0	--
0	BICYCLOELEMENE	Plant	0.1	1.8	-1.0	--
0	ALPHA-CAMPHOLENOL	Plant	0.05	0.9		--
0	PINOL	Plant	0.05	0.9		--
11	NICOTINIC-ACID	Leaf	0.007	1200.0	0.8574828309219877	--
0	BRENZCATECHIN	Plant				--
2	LEUCINE	Plant				--
77	CHLOROGENIC-ACID	Leaf				--
0	TANNINS	Seed		121000.0	1.4090882261939848	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
4	ISOFERULIC-ACID	Plant				--
26	HYPERICIN	Essential Oil		2200.0		--
18	AMENTOFLAVONE	Shoot				--
4	THREONINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	PYROGALLOL	Plant				--
0	MANGIFERIN(SIC)	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ALPHA-PINENE	Shoot Essent. Oil				--
25	P-COUMARIC-ACID	Plant				--
0	QUERCETIN-3-O-XYLOSIDE	Shoot				--
26	PHENOL	Plant				--
0	CINEOLE	Essential Oil				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-NONANE	Leaf Essent. Oil				--
5	GLUTAMINE	Plant				--
0	LUTEOXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Seed		395.0	-0.10131886672592849	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
0	KIELCORIN	Root				--
77	CHLOROGENIC-ACID	Plant				--
26	HYPERICIN	Cotyledon		14.5		--
0	ALKANOLS	Shoot				--
0	TETRACOSAN-1-OL	Leaf				--
0	PSEUDOHYPERICODIHYDROANTHRONE	Plant				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
78	LUTEOLIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	HYPERICODIHYDROANTHRONE	Plant				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
8	PHLOROGLUCINOL	Shoot				--
18	CINNAMIC-ACID	Plant				--
0	QUERCETIN-3-O-GLUCURONIDE	Shoot				--
24	PECTIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Fruit Essent. Oil				--
20	CHOLINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-NONANE	Shoot				--
62	GALLIC-ACID	Plant				--
112	ASCORBIC-ACID	Plant		1300.0	-0.28849886718467166	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
75	KAEMPFEROL	Plant				--
30	(+)-CATECHIN	Plant				--
0	TANNINS	Leaf		124000.0	0.3789365602623973	--
15	LUTEIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALKANES	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Flower		2500.0	-0.3400918652927049	--
2	TARAXASTEROL	Shoot				--
2	PSEUDOHYPERICIN	Plant				--
0	ISOVALERIANIC-ACID	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	PERFLAVIT	Shoot				--
30	HYPEROSIDE	Flower		6570.0	1.3767817207229411	--
1	CATECHINS	Plant				--
176	QUERCETIN	Stem				--
13	PALMITIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
60	LIMONENE	Leaf Essent. Oil				--
21	CHLOROPHYLL	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	(+)-EPICATECHIN	Plant				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.
1	IMANIN	Shoot				--
53	BETA-CAROTENE	Shoot		12.1	-0.6694191722615046	--
0	ACYLPHLOROGLUCINOLS	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TANNINS	Flower		162000.0	-1.414213562373095	--
0	ADHYPERFOLIN	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TANNINS	Shoot		3300.0	-1.0	--
0	PROVITAMIN-A	Plant		130.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	I3,I18-BIAPIGENIN	Plant		2600.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	QUERCETIN-3-O-XYLOSIDE	Plant				--
5	ORNITHINE	Plant				--
176	QUERCETIN	Leaf				--
0	NOVOIMANIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Shoot				--
0	CERYL-ALCOHOL	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	NOR-CYCLOPSEUDOHYPERICIN	Plant				--
0	MYRICETIN-3-O-BETA-D-GLUCOSIDE	Plant				--
0	2-METHYL-DECANE	Fruit Essent. Oil				--
30	HYPEROSIDE	Stem				--
102	CAFFEIC-ACID	Shoot		1000.0	-0.30167703804388507	--
8	GENTISIC-ACID	Plant				--
8	STEARIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ADHYPERFOLIN	Flower				--
47	BETA-SITOSTEROL	Shoot				--
0	PROTOPSEUDOHYPERICIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOQUERCETIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	GURJUNENE	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	QUERCETIN-3-O-GLUCURONIDE	Plant				--
0	2-METHYL-OCTANE	Fruit Essent. Oil				--
102	CAFFEIC-ACID	Plant		1000.0	-0.927639936569902	--
176	QUERCETIN	Shoot				--
0	N-OCTANOL	Essential Oil				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.
0	CAROTENOIDS	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	NONACOSANE	Plant				--
34	MYRICETIN	Plant				--
0	2-METHYL-DECANE	Leaf Essent. Oil				--
26	HYPERICIN	Fruit		730.0		--
30	HYPEROSIDE	Leaf				--
112	ASCORBIC-ACID	Shoot		16.5	-0.3703409857421204	--
22	GABA	Plant		700.0		--
1	1,3,6,7-TETRAHYDROXYXANTHONE	Leaf				--
0	SITOSTEROL	Plant				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
7	CYANIDIN	Plant				--
44	SCOPOLETIN	Plant				--
0	PROTOHYPERICIN	Plant				--
0	FLAVONOIDS	Flower		117100.0	1.7816328615787507	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Flower		1000.0	0.9439875157035426	--
0	2-METHYL-OCTANE	Leaf Essent. Oil				--
0	PROLINE	Plant				--
0	N-NONANE	Essential Oil				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.
0	CAROTENE	Seed		165.0	0.9999999999999998	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
22	MYRCENE	Fruit Essent. Oil				--
0	2-METHYL-DECANE	Shoot				--
7	HYPERFORIN	Flower		27930.0		--
0	2-METHYL-BUTENOL	Plant				--
112	ASCORBIC-ACID	Leaf				--
0	N-UNDECANE	Fruit Essent. Oil				--
0	SAPONIN	Seed				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	VANILLIC-ACID	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	ISOVALERIC-ACID-ESTER	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	1,3,6,7-TETRAHYDROXYXANTHONE	Plant				--
40	EPICATECHIN	Plant				--
87	RUTIN	Stem				--
0	HYPERIFOLIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	FAT	Seed		328000.0	0.32980195334230034	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
27	PROCYANIDINS	Plant				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	2-METHYL-OCTANE	Shoot				--
7	HYPERFORIN	Leaf				--
31	CARYOPHYLENE	Essential Oil				--
13	BETA-PINENE	Fruit Essent. Oil				--
1	N-DECANAL	Essential Oil				--
22	MYRCENE	Leaf Essent. Oil				--
13	CYSTEINE	Plant				--
0	HYPERESIN-2	Plant				--
18	MANGIFERIN	Plant				--
2	PSEUDOHYPERICIN	Cotyledon		164.9		--
0	BIAPIGENIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
61	FERULIC-ACID	Plant				--
0	N-UNDECANE	Leaf Essent. Oil				--
87	RUTIN	Plant		16000.0	-0.4415440806455522	--
13	P-HYDROXY-BENZOIC-ACID	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
22	ISOQUERCITRIN	Plant		3000.0	1.0	--
87	RUTIN	Shoot		10000.0	0.17325822920583467	--
12	PINENE	Essential Oil				--
1	DODECANOL	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	EO	Seed		3300.0	-0.5087818988509869	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
34	PROANTHOCYANIDINS	Plant		120000.0		--
2	N-OCTANAL	Essential Oil				--
7	HYPERFORIN	Fruit				--
13	BETA-PINENE	Leaf Essent. Oil				--
6	MYRISTIC-ACID	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	MYRCENE	Shoot				--
0	CYCLOPSEUDOHYPERICIN	Plant				--
0	HYPERESIN-1	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	VIOLAXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	LEUCOCYANIDIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	PSEUDOHYPERICIN	Shoot		40.0		--
0	1(3)-11(8)-BIAPIGENIN	Shoot		72.5		--
0	N-UNDECANE	Shoot				--
0	RESORCYNOL	Plant				--
25	OPCS	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	ISOHYPERICIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	ISOQUERCITRIN	Flower				--
2	PHYTOSTEROLS	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
47	BETA-SITOSTEROL	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	OCTACOSAN-1-OL	Leaf				--
7	HYPERFORIN	Shoot				--
13	BETA-PINENE	Shoot				--
22	MYRCENE	Essential Oil				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	XANTHONES	Plant		12.8		--
18	MANGIFERIN	Shoot				--
20	CHOLINE	Leaf				--
2	HUMULENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TROLLICHROME	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	KILECORIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	1(3)-11(8)-BIAPIGENIN	Flower				--
22	UMBELLIFERONE	Plant				--
44	QUERCITRIN	Plant				--
0	METHYL-3-BUT-3-EN-2-OL	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
1	IMANIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	QUERCITRIN	Leaf				--
8	PHLOROGLUCINOL	Plant				--
44	QUERCITRIN	Flower		3380.0		--
0	EMODINANTHRANOL	Plant				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
2	HUMULENE	Essential Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Fruit Essent. Oil				--
0	METHYL-2-OCTANE	Essential Oil		164000.0		--
4	CADINENE	Essential Oil				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	LYSINE	Plant				--
0	TANNINS	Stem		38000.0		--
0	KIELCORIN	Plant				--
2	PSEUDOHYPERICIN	Leaf				--
9	BETA-AMYRIN	Shoot				--
1	TRIACONTAN-1-OL	Leaf				--
176	QUERCETIN	Plant		20000.0	1.0	--
0	METHYL-2-DECANE	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	RHODAN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ALPHA-PINENE	Leaf Essent. Oil				--
0	ISOQUERCITIN	Plant				--
0	PHLOBAPHENE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
38	(-)-EPICATECHIN	Plant				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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-TROLLIXANTHIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-NONANE	Fruit Essent. Oil				--
0	HEXACOSAN-1-OL	Leaf				--