

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Hypericum perforatum*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Plant	--	--		
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.
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.
0	(E)-BETA-FARNESENE	Plant	0.5	9	-0.698672340478706	
0	(E)-OCIMENE	Plant	0.1	2.25		
0	(Z)-OCIMENE	Plant	0.25	4.5		
0	1(3)-11(8)-BIAPIGENIN	Flower	--	--		
0	1(3)-11(8)-BIAPIGENIN	Shoot	--	72.5		
1	1,3,6,7-TETRAHYDROXYXANTHONE	Leaf	--	--		
1	1,3,6,7-TETRAHYDROXYXANTHONE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2,2-DIMETHYL-7-ISOBUTYL-2H,5H-PYRANO-(4,3-B)-PYRAN-5-ONE	Plant	1.5	27		
0	2,2-DIMETHYL-7-SEC-BUTYL-2H,5H-PYRANO-(4,3-B)-PYRAN-5-ONE	Plant	1	18		
0	2-METHYL-BUTENOL	Plant	--	--		
0	2-METHYL-DECANE	Shoot	--	--		
0	2-METHYL-DECANE	Leaf Essent. Oil	--	--		
0	2-METHYL-DECANE	Fruit Essent. Oil	--	--		
0	2-METHYL-OCTANE	Shoot	--	--		
0	2-METHYL-OCTANE	Leaf Essent. Oil	--	--		
0	2-METHYL-OCTANE	Fruit Essent. Oil	--	--		
0	5-METHYLHEPTAN-2,4-DIONE	Plant	0.25	4.5		
0	6-METHYL-HEPT-5-EN-2-ONE	Plant	1	18		
0	6-METHYLHEPTAN-2,4-DIONE	Plant	0.25	4.5		
6	ACETOPHENONE	Plant	0.1	2.25	-1	
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	ADHYPERFOLIN	Flower	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ADHYPERFOLIN	Fruit	--	--		
0	ADHYPERIFORIN	Plant	2000	19000		
0	ALKANES	Shoot	--	--		
0	ALKANOLS	Shoot	--	--		
0	ALPHA-AMORPHENE	Plant	0.25	4.5	-1	
0	ALPHA-CAMPHOLENOL	Plant	0.05	0.9		
0	ALPHA-CUPRENENE	Plant	16	288		
0	ALPHA-EUDESOL	Plant	2.5	45		
2	ALPHA-HUMULENE	Plant	1	18	-0.6057643151172428	
11	ALPHA-PHELLANDRENE	Plant	0.3	5.4	-1.1319046038135718	
28	ALPHA-PINENE	Plant	13	245	-0.3080919122446896	
28	ALPHA-PINENE	Shoot Essent. Oil	--	--		
28	ALPHA-PINENE	Leaf Essent. Oil	--	--		
28	ALPHA-PINENE	Fruit Essent. Oil	--	--		
3	ALPHA-SELINENE	Plant	1	18	-0.5867176918752404	
13	ALPHA-TERPINENE	Plant	1	18	-0.4744627215339312	
23	ALPHA-TERPINEOL	Plant	3	54	-0.43865827127528684	
0	ALPHA-TERPINYL-ACETATE	Plant	0.1	1.8	-0.6913759776083797	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	AMENTOFLAVONE	Flower	100	500		
18	AMENTOFLAVONE	Shoot	--	--		
3	AR-CURCUMENE	Plant	0.5	9	-0.5646161556334643	
112	ASCORBIC-ACID	Leaf	--	--		
112	ASCORBIC-ACID	Plant	1300	1300	-0.28849886718467166	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
112	ASCORBIC-ACID	Seed	395	395	-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.
112	ASCORBIC-ACID	Shoot	--	16.5	-0.3703409857421204	
9	BETA-AMYRIN	Shoot	--	--		
0	BETA-BOURBONENE	Plant	0.25	4.5	-0.489936417763645	
53	BETA-CAROTENE	Shoot	--	12.1	-0.6694191722615046	
5	BETA-ELEMENE	Plant	0.25	4.5	-0.4590469964746937	
13	BETA-EUDESOL	Plant	2	32	-1.4039137909830484	
13	BETA-PINENE	Fruit Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Plant	335	6055	6.102304293563025	
13	BETA-PINENE	Shoot	--	--		
13	BETA-PINENE	Leaf Essent. Oil	--	--		
3	BETA-SELINENE	Plant	1.5	27	-0.500067830640769	
47	BETA-SITOSTEROL	Shoot	--	--		
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	BIAPIGENIN	Leaf	--	--		
0	BICYCLOLEMENE	Plant	0.1	1.8	-1	
35	BORNEOL	Plant	0.15	2.7	-0.6684962919153474	
12	BORNYL-ACETATE	Plant	0.2	3.6	-0.46669902653977585	
0	BRENZCATECHIN	Plant	--	--		
4	CADINENE	Essential Oil	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	CADMIUM	Plant	1	5	1.706360614699241	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CADMIUM	Root	1	3	2.1673447651974533	
3	CADMIUM	Leaf	1	7	1.8579388000852974	
102	CAFFEIC-ACID	Plant	--	1000	-0.927639936569902	
102	CAFFEIC-ACID	Shoot	--	1000	-0.30167703804388507	
9	CAMPHENE	Plant	1	18	-0.5750339250011366	
0	CAROTENE	Seed	165	165	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.
0	CAROTENOIDS	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
31	CARYOPHYLLENE	Plant	26	468	0.04369118646892662	
31	CARYOPHYLLENE	Essential Oil	--	--		
6	CARYOPHYLLENE-EPOXIDE	Plant	0.5	9		
1	CATECHINS	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CERYL-ALCOHOL	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
77	CHLOROGENIC-ACID	Plant	--	--		
77	CHLOROGENIC-ACID	Leaf	--	--		
21	CHLOROPHYLL	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
20	CHOLINE	Shoot	34	1000	0.572012868491687	
20	CHOLINE	Leaf	--	--		
20	CHOLINE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CINEOLE	Essential Oil	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
18	CINNAMIC-ACID	Plant	--	--		

Activity 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.
7	CYANIDIN	Plant	--	--		
0	CYCLOPSEUDOHYPERICIN	Plant	--	--		
13	CYSTEINE	Plant	--	--		
9	DELTA-CADINENE	Plant	0.5	9	-0.5016588984240995	
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)
2	ELEMOL	Plant	0.25	4.5	-0.6106083925528936	
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.
0	EO	Plant	500	3500	-0.05614454808389901	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Seed	3300	3300	-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.
0	EO	Flower	--	2500	-0.3400918652927049	
0	EO	Shoot	700	1250	-0.837336451901542	
40	EPICATECHIN	Plant	--	--		
0	FAT	Seed	328000	328000	0.32980195334230034	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FENCHOL	Plant	0.25	4.5		
61	FERULIC-ACID	Plant	--	--		
0	FLAVONOIDS	Flower	117100	117100	1.7816328615787507	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLAVONOIDS	Shoot	70000	74000	1.9987386742212807	
22	GABA	Plant	--	700		
62	GALLIC-ACID	Plant	--	--		
0	GAMMA-CURCUMENE	Plant	0.5	9		
0	GAMMA-EUDESOL	Plant	1.5	27	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Plant	1.5	27	-0.5229803987451376	
8	GENTISIC-ACID	Plant	--	--		
13	GERANIAL	Plant	0.35	6.3	-0.8448404627021195	
35	GERANIOL	Plant	4	72	-0.4372882513568854	
5	GERANYL-ACETATE	Plant	24	432	-0.046931008281076325	
5	GLUTAMINE	Plant	--	--		
3	GUAIOL	Plant	1.5	27	-1	
0	GURJUNENE	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	HEXACOSAN-1-OL	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.
2	HUMULENE	Essential Oil	--	--		
0	HYPERESIN-1	Plant	--	--		
0	HYPERESIN-2	Plant	--	--		
7	HYPERFORIN	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	HYPERFORIN	Plant	20000	45000		
7	HYPERFORIN	Shoot	--	--		
7	HYPERFORIN	Flower	--	27930		
7	HYPERFORIN	Fruit	--	--		
26	HYPERICIN	Cotyledon	--	14.5		
26	HYPERICIN	Fruit	--	730		
26	HYPERICIN	Essential Oil	--	2200		
26	HYPERICIN	Plant	5000	7000		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
26	HYPERICIN	Shoot	390	1780		
26	HYPERICIN	Stem	40	210		
26	HYPERICIN	Leaf	190	1950		
26	HYPERICIN	Flower	860	18000		
26	HYPERICIN	Flower Essent. Oil	5	19		
0	HYPERICINS	Plant	95	4660		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
14	HYPERIN	Plant	3500	5500		
30	HYPEROSIDE	Shoot	5000	40000	1	
30	HYPEROSIDE	Plant	3500	20000	1.4142135623730945	
30	HYPEROSIDE	Leaf	--	--		
30	HYPEROSIDE	Stem	--	--		
30	HYPEROSIDE	Flower	--	6570	1.3767817207229411	
0	I3,I18-BIAPIGENIN	Flower	100	500		
0	I3,I18-BIAPIGENIN	Plant	--	2600		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	IMANIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	IMANIN	Shoot	--	--		
0	ISHWARANE	Plant	0.5	9		
4	ISOFERULIC-ACID	Plant	--	--		
0	ISOHYPERICIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	ISOQUERCITIN	Plant	--	--		
22	ISOQUERCITRIN	Plant	--	3000	1	
22	ISOQUERCITRIN	Flower	--	--		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
75	KAEMPFEROL	Plant	--	--		
0	KIELCORIN	Root	--	--		
0	KIELCORIN	Plant	--	--		
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	LEAD	Leaf	6	18	-0.2544918195433336	
0	LEAD	Plant	2	12	-0.2052748805139635	
0	LEAD	Root	4	5	0.5725881018723528	
2	LEUCINE	Plant	--	--		
1	LEUCOCYANIDIN	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
60	LIMONENE	Shoot	--	--		
60	LIMONENE	Plant	5	90	-0.43049106807161513	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Leaf Essent. Oil	--	--		
60	LIMONENE	Fruit Essent. Oil	--	--		
53	LINALOOL	Plant	2.5	45	-0.6582300842221918	
15	LUTEIN	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	LUTEOXANTHIN	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	LYSINE	Plant	--	--		
18	MANGIFERIN	Shoot	--	--		
18	MANGIFERIN	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
18	MANNITOL	Plant	11000	20000	1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	METHYL-2-OCTANE	Essential Oil	--	164000		
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)
0	METHYL-GERANATE	Plant	0.3	5.4		
22	MYRCENE	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	MYRCENE	Fruit Essent. Oil	--	--		
22	MYRCENE	Essential Oil	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
22	MYRCENE	Shoot	--	--		
22	MYRCENE	Plant	10	190	-0.26735798519548487	
34	MYRICETIN	Plant	--	--		
0	MYRICETIN-3-O-BETA-D-GLUCOSIDE	Plant	--	--		
6	MYRISTIC-ACID	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	N-DECANAL	Essential Oil	--	--		
0	N-NONANE	Shoot	--	--		
0	N-NONANE	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	N-NONANE	Fruit Essent. Oil	--	--		
2	N-OCTANAL	Essential Oil	--	--		
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	N-UNDECANE	Shoot	--	--		
0	N-UNDECANE	Leaf Essent. Oil	--	--		
0	N-UNDECANE	Fruit Essent. Oil	--	--		
0	NEO-ALLOOCIMENE	Plant	0.3	5.4		
4	NERAL	Plant	0.35	6.3	-0.7605971244477834	
10	NEROL	Plant	1	18	-0.4305189847416696	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	NERYL-ACETATE	Plant	1	18	-0.5533167201767719	
11	NICOTINIC-ACID	Leaf	0.007	1200	0.8574828309219877	
2	NONACOSANE	Plant	--	--		
0	NONANE	Plant	23	414	1.7320463017310814	
0	NOR-CYCLOPSEUDOHYPERICIN	Plant	--	--		
0	NOVOIMANIN	Shoot	30000	40000		
0	NOVOIMANIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCT-1-ENE	Plant	1.5	17		
0	OCTACOSAN-1-OL	Leaf	--	--		
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)
5	ORNITHINE	Plant	--	--		
25	P-COUMARIC-ACID	Plant	--	--		
16	P-CYMENE	Plant	0.5	9	-0.4179122586089107	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
13	PALMITIC-ACID	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
24	PECTIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PERFLAVIT	Shoot	--	--		
26	PHENOL	Plant	--	--		
0	PHLOBAPHENE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	PHLOROGLUCINOL	Shoot	--	--		
8	PHLOROGLUCINOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	PINENE	Essential Oil	--	--		
0	PINOL	Plant	0.05	0.9		
34	PROANTHOCYANIDINS	Plant	--	120000		
27	PROCYANIDINS	Plant	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	PROLINE	Plant	--	--		
0	PROTEIN	Seed	181000	207000	-0.23836489772194505	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTOHYPERICIN	Plant	--	--		
0	PROTOPSEUDOHYPERICIN	Plant	--	--		
0	PROVITAMIN-A	Plant	130	130		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PSEUDOHYPERICIN	Cotyledon	--	164.9		
2	PSEUDOHYPERICIN	Plant	--	--		
2	PSEUDOHYPERICIN	Leaf	--	--		
2	PSEUDOHYPERICIN	Flower	2260	5800		
2	PSEUDOHYPERICIN	Shoot	--	40		
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.
23	PYROGALLOL	Plant	--	--		
176	QUERCETIN	Flower	--	1000	0.9439875157035426	
176	QUERCETIN	Shoot	--	--		
176	QUERCETIN	Leaf	--	--		
176	QUERCETIN	Plant	--	20000	1	
176	QUERCETIN	Stem	--	--		
0	QUERCETIN-3-O-GLUCURONIDE	Shoot	--	--		
0	QUERCETIN-3-O-GLUCURONIDE	Plant	--	--		
0	QUERCETIN-3-O-XYLOSIDE	Shoot	--	--		
0	QUERCETIN-3-O-XYLOSIDE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
44	QUERCITRIN	Plant	--	--		
44	QUERCITRIN	Shoot	3000	5240	-1	
44	QUERCITRIN	Flower	--	3380		
44	QUERCITRIN	Leaf	--	--		
0	RESORCYNOL	Plant	--	--		
0	RHODAN	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
87	RUTIN	Leaf	2000	3000	-0.8182983793201679	
87	RUTIN	Plant	--	16000	-0.4415440806455522	
87	RUTIN	Shoot	--	10000	0.17325822920583467	
87	RUTIN	Flower	1000	2800	-0.7206034752837803	
87	RUTIN	Stem	--	--		
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.
44	SCOPOLETIN	Plant	--	--		
0	SELINA-4,11-DIENE	Plant	0.15	2.7	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SITOSTEROL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	TANNINS	Plant	30000	160000	0.6335167585895222	
0	TANNINS	Flower	--	162000	-1.414213562373095	
0	TANNINS	Seed	121000	121000	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.
0	TANNINS	Shoot	--	3300	-1	
0	TANNINS	Leaf	--	124000	0.3789365602623973	
0	TANNINS	Stem	--	38000		
2	TARAXASTEROL	Shoot	--	--		
23	TERPINEN-4-OL	Plant	0.5	9	-0.2775675416087286	
0	TERPINEOLENE	Plant	1.5	27	1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TETRACOSAN-1-OL	Leaf	--	--		
4	THREONINE	Plant	--	--		
1	TRIACONTAN-1-OL	Leaf	--	--		
0	TROLLICHROME	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	UMBELLIFERONE	Plant	--	--		
0	UNDECANE	Plant	0.25	4.5	1.6819265754924004	
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.
2	VIOLAXANTHIN	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	XANTHONES	Plant	--	12.8		