

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	--	--		
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.
1	1,3,6,7-TETRAHYDROXYXANTHONE	Leaf	--	--		
1	1,3,6,7-TETRAHYDROXYXANTHONE	Plant	--	--		
6	ACETOPHENONE	Plant	0.1	2.25	-1	
2	ALPHA-HUMULENE	Plant	1	18	-0.6057643151172428	
11	ALPHA-PHELLANDRENE	Plant	0.3	5.4	-1.1319046038135718	
28	ALPHA-PINENE	Fruit Essent. Oil	--	--		
28	ALPHA-PINENE	Plant	13	245	-0.3080919122446896	
28	ALPHA-PINENE	Shoot Essent. Oil	--	--		
28	ALPHA-PINENE	Leaf 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	
18	AMENTOFILAVONE	Flower	100	500		
18	AMENTOFILAVONE	Shoot	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	Shoot	--	16.5	-0.3703409857421204	
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.
9	BETA-AMYRIN	Shoot	--	--		
53	BETA-CAROTENE	Shoot	--	12.1	-0.6694191722615046	
5	BETA-ELEMENE	Plant	0.25	4.5	-0.4590469964746937	
13	BETA-EUDES MOL	Plant	2	32	-1.4039137909830484	
13	BETA-PINENE	Shoot	--	--		
13	BETA-PINENE	Plant	335	6055	6.102304293563025	
13	BETA-PINENE	Leaf Essent. Oil	--	--		
13	BETA-PINENE	Fruit Essent. Oil	--	--		
3	BETA-SELINENE	Plant	1.5	27	-0.500067830640769	
47	BETA-SITOSTEROL	Shoot	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
35	BORNEOL	Plant	0.15	2.7	-0.6684962919153474	
12	BORNYL-ACETATE	Plant	0.2	3.6	-0.46669902653977585	
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	
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	
31	CARYOPHYLLENE	Plant	26	468	0.04369118646892662	
31	CARYOPHYLLENE	Essential Oil	--	--		
6	CARYOPHYLLENE-EPOXIDE	Plant	0.5	9		
1	CATECHINS	Plant	--	--		
77	CHLOROGENIC-ACID	Plant	--	--		
77	CHLOROGENIC-ACID	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
18	CINNAMIC-ACID	Plant	--	--		
7	CYANIDIN	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	
40	EPICATECHIN	Plant	--	--		
61	FERULIC-ACID	Plant	--	--		
22	GABA	Plant	--	700		
62	GALLIC-ACID	Plant	--	--		
11	GAMMA-TERPINENE	Plant	1.5	27	-0.5229803987451376	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	GUAJOL	Plant	1.5	27	-1	
2	HUMULENE	Essential Oil	--	--		
2	HUMULENE	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	HYPERFORIN	Shoot	--	--		
7	HYPERFORIN	Plant	20000	45000		
7	HYPERFORIN	Fruit	--	--		
7	HYPERFORIN	Leaf	--	--		
7	HYPERFORIN	Flower	--	27930		
26	HYPERICIN	Leaf	190	1950		
26	HYPERICIN	Fruit	--	730		
26	HYPERICIN	Flower	860	18000		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
26	HYPERICIN	Stem	40	210		
26	HYPERICIN	Flower Essent. Oil	5	19		
26	HYPERICIN	Cotyledon	--	14.5		
26	HYPERICIN	Essential Oil	--	2200		
26	HYPERICIN	Shoot	390	1780		
14	HYPERIN	Plant	3500	5500		
30	HYPEROSIDE	Stem	--	--		
30	HYPEROSIDE	Flower	--	6570	1.3767817207229411	
30	HYPEROSIDE	Plant	3500	20000	1.4142135623730945	
30	HYPEROSIDE	Shoot	5000	40000	1	
30	HYPEROSIDE	Leaf	--	--		
1	IMANIN	Shoot	--	--		
1	IMANIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	ISOFERULIC-ACID	Plant	--	--		
3	ISOQUERCETIN	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	ISOQUERCITRIN	Plant	--	3000	1	
22	ISOQUERCITRIN	Flower	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
75	KAEMPFEROL	Plant	--	--		
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	Plant	5	90	-0.43049106807161513	
60	LIMONENE	Shoot	--	--		
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.
4	LYSINE	Plant	--	--		
18	MANGIFERIN	Shoot	--	--		
18	MANGIFERIN	Plant	--	--		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
22	MYRCENE	Shoot	--	--		
22	MYRCENE	Leaf 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	Fruit Essent. Oil	--	--		
22	MYRCENE	Plant	10	190	-0.26735798519548487	
34	MYRICETIN	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	--	--		
2	N-OCTANAL	Essential Oil	--	--		
4	NERAL	Plant	0.35	6.3	-0.7605971244477834	
10	NEROL	Plant	1	18	-0.4305189847416696	
5	NERYL-ACETATE	Plant	1	18	-0.5533167201767719	
11	NICOTINIC-ACID	Leaf	0.007	1200	0.8574828309219877	
2	NONACOSANE	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)

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5	ORNITHINE	Plant	--	--		
25	P-COUMARIC-ACID	Plant	--	--		
16	P-CYMENE	Plant	0.5	9	-0.4179122586089107	
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.
26	PHENOL	Plant	--	--		
8	PHLOROGLUCINOL	Shoot	--	--		
8	PHLOROGLUCINOL	Plant	--	--		
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	--	--		
34	PROANTHOCYANIDINS	Plant	--	120000		
27	PROCYANIDINS	Plant	--	--		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
2	PSEUDOHYPERICIN	Leaf	--	--		
2	PSEUDOHYPERICIN	Flower	2260	5800		
2	PSEUDOHYPERICIN	Shoot	--	40		
2	PSEUDOHYPERICIN	Plant	--	--		
2	PSEUDOHYPERICIN	Cotyledon	--	164.9		
23	PYROGALLOL	Plant	--	--		
176	QUERCETIN	Plant	--	20000	1	
176	QUERCETIN	Shoot	--	--		
176	QUERCETIN	Flower	--	1000	0.9439875157035426	
176	QUERCETIN	Leaf	--	--		
176	QUERCETIN	Stem	--	--		
44	QUERCITRIN	Shoot	3000	5240	-1	
44	QUERCITRIN	Plant	--	--		
44	QUERCITRIN	Leaf	--	--		
44	QUERCITRIN	Flower	--	3380		
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	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
87	RUTIN	Stem	--	--		
44	SCOPOLETIN	Plant	--	--		
8	STEARIC-ACID	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	TARAXASTEROL	Shoot	--	--		
23	TERPINEN-4-OL	Plant	0.5	9	-0.2775675416087286	
4	THREONINE	Plant	--	--		
1	TRIACONTAN-1-OL	Leaf	--	--		
22	UMBELLIFERONE	Plant	--	--		
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		