

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Crataegus monogyna*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
38	(-)-EPICATECHIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	2''-O-RHAMNOSIDE-ISOORIENTIN	Leaf				--
0	2''-O-RHAMNOSIDE-ISOVITEXIN	Leaf				--
0	2''-O-RHAMNOSYL-ISOORIENTIN	Flower				--
0	2''-O-RHAMNOSYL-ISOVITEXIN	Flower				--
0	2''-O-RHAMNOSYL-ORIENTIN	Flower				--
0	2''-O-RHAMNOSYL-VITEXIN	Flower				--
0	2-ALPHA-HYDROXY-OLEANOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	2-PHENYLCHROMONE	Flower				--
0	4'-ACETYL-2-RHAMNOSIDE	Plant		5000.0		--
0	ACANTOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
19	ACETYL-CHOLINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11	ADENINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ADENOSINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
33	AESULIN	Inflorescence				--
0	AMINOPURINE	Inflorescence				--
101	APIGENIN	Leaf				--
101	APIGENIN	Fruit				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
101	APIGENIN	Flower				--
0	APS-SULFOTRANSFERASE	Leaf				--
0	BETA-PHENYLETHYLAMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
102	CAFFEIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
77	CHLOROGENIC-ACID	Plant				Schussler, M., Fricke, U., Nikolov, N., and Holzl, J. 1991. Comparison of the Flavonoids Occurring in Crataegus species and Inhibition of 3',5'-Cyclic Adenosine Monophosphate Phosphodiesterase. Plant Medica 57: Suppl Issue 2. p.A-133.
20	CHOLINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CRATAEGOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	DIMETHYL-AMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	DIMETHYL-AMINE	Inflorescence				--
0	DOCOSAN-1-OL	Shoot				--
0	EICOSAN-1-OL	Shoot				--
0	ETHANOLAMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ETHANOLAMINE	Inflorescence				--
0	ETHYL-AMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ETHYL-AMINE	Inflorescence				--
0	FLAVONOIDS	Shoot	10000.0	20000.0	-0.47676335348397514	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	FLAVONOIDS	Inflorescence		30500.0		--
0	GLOGOSIDE	Inflorescence				--
1	GUANINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	HEPTACOSAN-1-OL	Shoot				--
0	HEXACOSAN-1-OL	Shoot				--
30	HYPEROSIDE	Shoot				--
30	HYPEROSIDE	Flower				--
30	HYPEROSIDE	Leaf		2000.0	-0.3542508923930064	--
30	HYPEROSIDE	Plant		10000.0	-0.707106781186548	--
30	HYPEROSIDE	Inflorescence				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOAMYL-AMINE	Inflorescence				--
0	ISOAMYL-AMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ISOBUTYL-AMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	ISOORIENTIN	Leaf				--
22	ISOQUERCITRIN	Leaf				--
0	ISOSCHAFTOSIDE	Flower				--
0	ISOSCHAFTOSIDE	Leaf		10.0	-1.0	--
4	ISOVITEXIN	Leaf				--
4	ISOVITEXIN	Inflorescence				--
75	KAEMPFEROL	Leaf				--
75	KAEMPFEROL	Flower				--
75	KAEMPFEROL	Inflorescence				--
1	KAEMPFEROL=3=NEOHESPERIDOSIDE	Flower		1800.0		--
78	LUTEOLIN	Fruit				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
78	LUTEOLIN	Tissue Culture				--
6	MASLINIC-ACID	Inflorescence				--
0	N-1-N-5-N-10-TRI-TRANS-4-COUMAROYL-SPERMIDINE	Flower				--
0	NEOSCHAFTOSIDE	Leaf				--
1	NEOSCHAFTOSIDE	Leaf		0.5		--
1	NEOSCHAFTOSIDE	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NEOTEGOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	NONACOSAN-1-OL	Shoot				--
0	NONADECAN-1-OL	Shoot				--
0	O-METHOXY-PHENYLETHYLAMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	OCTACOSAN-1-OL	Shoot				--
0	OCTADECAN-1-OL	Shoot				--
64	OLEANOLIC-ACID	Inflorescence				--
64	OLEANOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
25	OPC	Shoot	10000.0	30000.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	ORIENTIN	Leaf				--
4	ORIENTIN	Inflorescence				--
0	ORIENTIN-2"-O-RHAMNOSIDE	Leaf				--
0	ORIENTIN-GLYCOSIDES	Fruit				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	ORIENTIN-RHAMNOSIDE	Inflorescence				--
0	PENTACOSAN-1-OL	Shoot				--
0	PROANTHOCYANIDIN-B2	Flower				--
34	PROANTHOCYANIDINS	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	PROCYANIDIN	Leaf				--
1	PROCYANIDIN-B-1	Pericarp				--
1	PROCYANIDIN-B-1	Leaf				--
1	PROCYANIDIN-B-2	Pericarp				--
1	PROCYANIDIN-B-2	Leaf				--
4	PROCYANIDIN-B-4	Pericarp				--
4	PROCYANIDIN-B-4	Leaf				--
0	PROCYANIDIN-B-5	Pericarp				--
0	PROCYANIDIN-B-5	Leaf				--
0	PROCYANIDIN-C-1	Pericarp				--
0	PROCYANIDIN-C-1	Leaf				--
0	PROCYANIDIN-D-1	Pericarp				--
0	PROCYANIDIN-D-1	Leaf				--
0	PROCYANIDIN-E	Pericarp				--
0	PROCYANIDIN-E	Leaf				--
0	PROCYANIDIN-G	Pericarp				--
0	PROCYANIDIN-G	Leaf				--
6	PYCNOGENOL	Shoot	10000.0	30000.0		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
176	QUERCETIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
176	QUERCETIN	Flower				--
176	QUERCETIN	Leaf		20.0	-0.3517072116309935	--
176	QUERCETIN	Inflorescence				--
0	QUERCETIN-3-O-RHAMNOGALACTOSIDE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-RHAMNOGALACTOSIDE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHAMNOSYLORIENTIN	Inflorescence				--
0	RHAMNOSYLVITEXIN	Inflorescence				--
87	RUTIN	Leaf				--
87	RUTIN	Inflorescence				--
87	RUTIN	Flower				--
0	SAPONARETIN-RHAMNOSIDE	Inflorescence				--
5	SAPONINS	Fruit				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
1	SCHAFTOSIDE	Leaf		9.0	-1.0	--
1	SCHAFTOSIDE	Flower				--
0	SEXANGULARETIN	Flower				--
0	SEXANGULARETIN-3-O-BETA-D-GLUCOSIDE	Flower		16000.0		--
0	SEXULARETIN	Flower				--
4	SPIRAEOSIDE	Leaf				--
4	SPIRAEOSIDE	Flower				--
0	TANNINS	Flower				--
0	TETRACOSAN-1-OL	Shoot				--
1	TRIACONTAN-1-OL	Shoot				--
0	TRICOSAN-1-OL	Shoot				--
1	TRIMETHYLAMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	TYRAMINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	URIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
89	URSOLIC-ACID	Inflorescence				--
89	URSOLIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	VICENIN-1	Leaf		3.0		--
0	VICENIN-1	Flower				--
12	VICENIN-2	Flower				--
12	VICENIN-2	Leaf		3.0		--
0	VICENIN-3	Flower				--
0	VICENIN-3	Leaf		3.0		--
18	VITEXIN	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
18	VITEXIN	Leaf				--
18	VITEXIN	Fruit				--
18	VITEXIN	Inflorescence				--
18	VITEXIN	Flower				--
0	VITEXIN-2'-BETA-RHAMNOSIDE	Flower				--
1	VITEXIN-2'-O-RHAMNOSIDE	Inflorescence				--
1	VITEXIN-2'-O-RHAMNOSIDE	Leaf				--
0	VITEXIN-2'-RHAMNOSIDE	Leaf				--
0	VITEXIN-2'-RHAMNOSIDE	Plant		5000.0		--
0	VITEXIN-2'-RHAMNOSIDE	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VITEXIN-4',7-DI-D-GLUCOSIDE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	VITEXIN-4',L-RHAMNO-D-GLUCOSIDE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	VITEXIN-4'-L-RHAMNOSIDE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	VITEXIN-8-C-ALPHA-L-RHAMNOSYL-ACETYL-L-BETA-D-GLUCOSIDE	Inflorescence				--
0	VITEXIN-8-C-ALPHA-L-RHAMNOSYL-BETA-D-GLUCOSIDE	Inflorescence				--
0	VITEXIN-RHAMNOSIDE	Inflorescence				--
0	VITEXIN-RHAMNOSIDE	Leaf				--