

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Crataegus monogyna*

Activity 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	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4'-ACETYL-2-RHAMNOSIDE	Plant	--	5000		
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.
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	AESCULIN	Inflorescence	--	--		
0	AMINOPURINE	Inflorescence	--	--		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
101	APIGENIN	Flower	--	--		
101	APIGENIN	Leaf	--	--		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
2	DIMETHYL-AMINE	Inflorescence	--	--		
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.
0	DOCOSAN-1-OL	Shoot	--	--		
0	EICOSAN-1-OL	Shoot	--	--		
0	ETHANOLAMINE	Inflorescence	--	--		
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	ETHYL-AMINE	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	FLAVONOIDS	Inflorescence	--	30500		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FLAVONOIDS	Shoot	10000	20000	-0.47676335348397514	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
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	Inflorescence	--	--		
30	HYPEROSIDE	Leaf	--	2000	-0.3542508923930064	
30	HYPEROSIDE	Flower	--	--		
30	HYPEROSIDE	Plant	--	10000	-0.707106781186548	
30	HYPEROSIDE	Shoot	--	--		
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	ISOAMYL-AMINE	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	-1	
4	ISOVITEXIN	Leaf	--	--		
4	ISOVITEXIN	Inflorescence	--	--		
75	KAEMPFEROL	Inflorescence	--	--		
75	KAEMPFEROL	Flower	--	--		
75	KAEMPFEROL	Leaf	--	--		
1	KAEMPFEROL=3=NEOHESPERIDOSIDE	Flower	--	1800		
78	LUTEOLIN	Tissue Culture	--	--		
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.
6	MASLINIC-ACID	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-1-N-5-N-10-TRI-TRANS-4-COUMAROYL-SPERMIDINE	Flower	--	--		
0	NEOSCHAFTOSIDE	Leaf	--	--		
1	NEOSCHAFTOSIDE	Flower	--	--		
1	NEOSCHAFTOSIDE	Leaf	--	0.5		
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	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
64	OLEANOLIC-ACID	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	OPC	Shoot	10000	30000		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.
11	PROCYANIDIN	Leaf	--	--		
1	PROCYANIDIN-B-1	Pericarp	--	--		
1	PROCYANIDIN-B-1	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PROCYANIDIN-B-2	Leaf	--	--		
1	PROCYANIDIN-B-2	Pericarp	--	--		
4	PROCYANIDIN-B-4	Leaf	--	--		
4	PROCYANIDIN-B-4	Pericarp	--	--		
0	PROCYANIDIN-B-5	Pericarp	--	--		
0	PROCYANIDIN-B-5	Leaf	--	--		
0	PROCYANIDIN-C-1	Leaf	--	--		
0	PROCYANIDIN-C-1	Pericarp	--	--		
0	PROCYANIDIN-D-1	Leaf	--	--		
0	PROCYANIDIN-D-1	Pericarp	--	--		
0	PROCYANIDIN-E	Leaf	--	--		
0	PROCYANIDIN-E	Pericarp	--	--		
0	PROCYANIDIN-G	Leaf	--	--		
0	PROCYANIDIN-G	Pericarp	--	--		
6	PYCNOGENOL	Shoot	10000	30000		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
176	QUERCETIN	Leaf	--	20	-0.3517072116309935	
176	QUERCETIN	Flower	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	Inflorescence	--	--		
0	QUERCETIN-3-O-RHAMNOGALACTOSIDE	Leaf	--	--		
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	Flower	--	--		
87	RUTIN	Inflorescence	--	--		
87	RUTIN	Leaf	--	--		
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	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SCHAFTOSIDE	Flower	--	--		
0	SEXANGULARETIN	Flower	--	--		
0	SEXANGULARETIN-3-O-BETA-D-GLUCOSIDE	Flower	--	16000		
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.
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.

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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	VICENIN-1	Flower	--	--		
12	VICENIN-2	Flower	--	--		
12	VICENIN-2	Leaf	--	3		
0	VICENIN-3	Leaf	--	3		
0	VICENIN-3	Flower	--	--		
18	VITEXIN	Fruit	--	--		
18	VITEXIN	Leaf	--	--		
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	Flower	--	--		
18	VITEXIN	Inflorescence	--	--		
0	VITEXIN-2'-BETA-RHAMNOSIDE	Flower	--	--		
1	VITEXIN-2'-O-RHAMNOSIDE	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	VITEXIN-2'-O-RHAMNOSIDE	Leaf	--	--		
0	VITEXIN-2'-RHAMNOSIDE	Flower	--	--		
0	VITEXIN-2'-RHAMNOSIDE	Leaf	--	--		
0	VITEXIN-2'-RHAMNOSIDE	Plant	--	5000		
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	Leaf	--	--		
0	VITEXIN-RHAMNOSIDE	Inflorescence	--	--		