

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Elaeagnus angustifolia*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
93	TOCOPHEROL	Fruit	1.0	20.0	-0.5354215411219696	--
8	STEARIC-ACID	Seed		235.0	-0.5602913382599791	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
9	SINAPIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PALMITOLEIC-ACID	Seed		495.0	-0.2865853497815508	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
13	PALMITIC-ACID	Seed		1145.0	-0.6759759843568258	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
25	P-COUMARIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
64	OLEANOLIC-ACID	Bark		2140.0	1.0	Zhong, J. F., Jin, J. H., Li, X. P. 1991. Determination of Oleanolic Acid in Russian Olive (<i>Elaeagnus angustifolia</i>) by TLC-Scanning. <i>Chung Ts'ao Yao</i> 22 3: 398-399. Gansu Inst New Med Pharm Sci Lanzhou 730050 China.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
64	OLEANOLIC-ACID	Plant				Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
2	NEO-CHLOROGENIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
75	KAEMPFEROL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	ISORHAMNETIN	Fruit				Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of <i>Elaeagnus angustifolia</i> . Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
11	ISORHAMNETIN	Plant				Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
1	HARMOL	Shoot				Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat Przyr Gdansk Tow Nauk 8: 137-143. Akad Med Danzig Poland.
1	HARMOL	Root Bark				Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat-Przyr Gdansk Tow Nauk 8: 137-. Acad Med Danzig Poland.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	HARMINE	Shoot				Lutowski, J., Nowicka, B. 1968. Simple Carboline Alkaloids. VI. Comparative Chemical Evaluation of Alkaloid Fractions From Different Sources. Inst. Przem 14 4: 235-238. Poznan Poland.
23	HARMINE	Root				Gill, S., Raszeja, W. 1971. Chromatographic Analysis of Harman Derivatives in Some Plant Raw Materials. Gdansk Tow Nauk Rozpr Wydz 1971 8: 137-143. Akad Med Gdansk Poland.
7	HARMAN	Shoot				--
7	HARMAN	Root				Gill, S., Raszeja, W. 1971. Chromatographic Analysis of Harman Derivatives in Some Plant Raw Materials. Gdansk Tow Nauk Rozpr Wydz 1971 8: 137-143. Akad Med Gdansk Poland.
7	HARMAN	Root Bark				Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat-Przyr Gdansk Tow Nauk 8: 137-. Acad Med Danzig Poland.
8	GLUTAMIC-ACID	Root		0.48	-1.2905101027270787	Wheller, C. T., Bond, G. 1970. The Amino Acids of Non-Legume Root Nodules. Phytochemistry 9: 705-708. Dept. Botany Univ. Glasgow Glasgow, Scotland.
61	FERULIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ETHYL-CINNAMATE	Flower		790.0	1.0	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
40	EPICATECHIN	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	CHLOROGENIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
43	CATECHIN	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CALLIGONINE	Bark				--
102	CAFFEIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
102	CAFFEIC-ACID	Fruit				Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of <i>Elaeagnus angustifolia</i> . Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
112	ASCORBIC-ACID	Fruit	40.0	500.0	-0.25340050910901013	--