

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Terminalia catappa

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Seed		0.0	-0.33845664486186666	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
75	KAEMPFEROL	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				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
62	GALLIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	BETA-CAROTENE	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
53	BETA-CAROTENE	Fruit		1.8	-0.14732126156164263	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
51	ELLAGIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. Phytochemistry 7 10: 1803-1813

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
40	EPICATECHIN	Bark				--
39	NIACIN	Seed	6.0	7.0	-1.0742170158570792	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
38	(-)-EPICATECHIN	Bark				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
35	TANNIN	Fruit	60000.0	200000.0	1.0178450211539385	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
35	TANNIN	Bark		130000.0	-0.09697217891198255	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	THIAMIN	Seed	3.0	7.0	0.09921569102976133	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
30	(+)-CATECHIN	Bark				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
28	CALCIUM	Seed	320.0	5100.0	0.1751328022941634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
27	LINOLEIC-ACID	Seed Oil				Abdullahi, A. H., Anelli, G. 1980. Fatty Acid Composition and Characteristics of Terminalia catappa Oil Seed from Somalia. Riv. Agric. Subtrop. Trop. 74: 245-247.
27	LINOLEIC-ACID	Seed	102600.0	184450.0	0.6625522962598384	--

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22	BETULINIC-ACID	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
21	GERANIIN	Leaf		184.4	-1.0	--
18	OLEIC-ACID	Seed	126250.0	245000.0	1.0349436395661469	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Seed	18000.0	95000.0	-0.31410037789612827	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Seed	0.8	3.0	-0.20090831129253928	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	POTASSIUM	Seed	7840.0	8165.0	-0.38739595845691543	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	CORILAGIN	Leaf		500.0	1.0	Tanaka, T., Nonaka, G. I., Nishioka, I. 1986. Tannins and Related Compounds. XLII. Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatatin from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
13	PALMITIC-ACID	Seed	156600.0	232440.0	4.096390353067535	--
13	PALMITIC-ACID	Seed Oil				Abdullahi, A. H., Anelli, G. 1980. Fatty Acid Composition and Characteristics of Terminalia catappa Oil Seed from Somalia. Riv. Agric. Subtrop. Trop. 74: 245-247.
13	CORILAGIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	PUNICALAGIN	Leaf		4812.5	-1.0	Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
9	OXALIC-ACID	Bark				Bharadwaj, K., Chandra, V. 1983. Comparative Incidence of Calcium Oxalate as a Source of Oxalic Acid in Barks of Seven Species of Terminalia. Biol. Mem. 8 1/2: 54-62.
8	CHEBULAGIC-ACID	Leaf		55.0	-1.0	Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
8	STEARIC-ACID	Seed	21600.0	40525.0	0.31386484893733	--
8	GENTISIC-ACID	Leaf				Griffiths, L. A. 1959. On the Distribution of Gentisic Acid in Green Plants. J. Exp. Biol. 10: 437.
7	PUNICALIN	Leaf		550.0	1.0	Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
7	GLUCOSE	Fruit		59800.0	-0.26042032454788655	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Seed	0.0	95.0	-0.2592318517404449	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MYRISTIC-ACID	Seed	700.0	5960.0	-0.21798166315362202	--
5	DAUCOSTEROL	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
5	ARJUNOLIC-ACID	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
4	PHOSPHORUS	Seed	7890.0	9835.0	1.1843155137992867	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	3,3',4-TRI-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. Phytochemistry 7 10: 1803-1813
2	PALMITOLEIC-ACID	Seed	11850.0	14125.0	0.04059691503408286	--
1	SODIUM	Seed	700.0	730.0	0.44309882254384525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	LEUCOCYANIDIN	Bark				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	BREVIFOLIN-CARBOXYLIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PENTOSANS	Fruit		251600.0	1.856644035837029	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	TERMINALIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2,3-(4,4',5,5',6,6'-HEXAHYDROXY-DIPHENOYL)-GLUCOSE	Leaf		625.0		Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
0	ASH	Seed	24000.0	43000.0	-0.14678225213812016	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	1-DEGALLOYL-EUGENIIN	Leaf		195.0	-1.0	Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
0	FAT	Seed	500000.0	596000.0	1.741453816725634	--
0	3,3'-DI-O-METHYL-ELLAGIC-ACID	Bark				Lowry, J. B. 1968. The Distribution and Potential Taxonomic Value of Alkylated Ellagic Acids. Phytochemistry 7 10: 1803-1813
0	ARACHIDIC-ACID	Seed	0.0	4770.0	-0.18883634290214402	--
0	ARJUNOLIC-ACID-28-O-BETA-D-GLUCOSIDE	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
0	GRANATIN-B	Leaf		281.9		Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LINOLENIC-ACID	Seed	950.0	1130.0	-0.5601351541287415	--
0	CYANIDIN-3-GLUCOSIDE	Fruit				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	TERGALLAGIN	Leaf		398.8		Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
0	TERFLAVIN-B	Leaf		39.4	-1.0000000000000002	Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
0	PROTEIN	Seed	191000.0	272500.0	0.3442915232896909	--
0	CARBOHYDRATES	Seed	149000.0	179000.0	-1.3687242658038388	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TERFLAVIN-A	Leaf		581.3		Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049
0	FATTY-ACIDS	Seed Oil				Upadhya, G. S., Narayanaswamy, G., Kartha, A. R. S. 1974. Note on the Comparative Development of Fatty Acids in Ripening Seeds of 6 Dicot Species Producing C16-C18 Acid Fats. Indian J. Agr. Sci. 44: 620.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KILOCALORIES	Seed	5940.0	6340.0	1.159256742179852	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WATER	Seed	27000.0	60000.0	-0.6431783541666525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TERCATAIN	Leaf		179.4		Tanaka,T.,Nonaka,G. I.,Nishioka,I.1986.Tannins and Related Compounds.XLII.Isolation and Characterization of Four New Hydrolyzable Tannins, Terflavins A & B, Tergallagin and Tercatain from the Leaves of Terminalia catappa L. Chem Pharm Bull 34 3: 1039-1049