

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Morinda citrifolia*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(E)-6-DODECENO-GAMMA-LACTONE	Fruit		0.04		--
0	(Z)-6-DODECENO-GAMMA-LACTONE	Fruit		0.04		--
0	(Z,Z)-2,5-UNDECADIEN-1-OL	Fruit		0.18		--
0	(Z,Z,Z)-8,11,14-EICOSATRIENOIC-ACID	Fruit		0.03		--
0	1-5-6-TRIHYDROXY-ANTHRAQUINONE	Tissue Culture				--
0	1-BUTANOL	Fruit		0.03		--
0	1-HEXANOL	Fruit		0.05		--
0	2,6-DI-O-(BETA-D-GLUCOPYRANOSYL)-1-O-OCTANOYL-BETA-D-GLUCOPYRANOSE	Fruit		5000.0		--
0	2-HEPTANONE	Fruit		0.15		--
0	2-HYDROXY-1-METHOXY-7-METHYL-ANTHRAQUINONE	Root				--
0	2-METHYL-3-METHYLTHIO-PROPANOATE	Fruit		0.01		--
0	2-METHYL-BUTANOIC-ACID	Fruit		0.23		--
0	2-METHYL-HEXANOATE	Fruit		0.16		--
0	2-METHYL-PROPANOIC-ACID	Fruit		0.05		--
0	3-5-6-TRIHYDROXY-2-METHYL-ANTHRAQUINONE	Tissue Culture		160.0		--
0	3-HYDROXY-2-BUTANONE	Fruit		0.03		--
0	3-HYDROXY-MORINDONE	Tissue Culture		309.0		--
0	3-METHYL-2-BUTEN-1-OL	Fruit		0.13		--
0	3-METHYL-3-BUTEN-1-OL	Fruit		1.78		--
0	3-METHYL-THIOPROPANOIC-ACID	Fruit		0.18		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5,7-DIMETHYL-APIGENIN-4'-O-BETA-D(+)-GALACTOPYRANOSIDE	Flower				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	5-6-DIHYDROXY-LUCIDIN	Tissue Culture		109.0		--
0	6,8-DIMETHOXY-3-METHYLANTHRAQUINONE-1-O-BETA-RHAMNOSYL-GLUCOPYRANOSIDE	Flower				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	7-HYDROXY-8-METHOXY-2-METHYL-ANTHRAQUINONE	Root		300.0		--
0	ACACETIN-7-O-BETA-D(+)-GLUCOPYRANOSIDE	Flower				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	ACACETIN-7-O-BETA-D-GLUCOPYRANOSIDE	Flower				--
16	ACETIC-ACID	Plant		0.02	-0.7153735267894865	--
11	ALIZARIN	Bark				--
11	ALIZARIN	Tissue Culture				--
11	ALIZARIN	Wood				--
11	ALIZARIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALIZARIN-ALPHA-METHYL-ETHER	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ALPH-METHOXY-ALIZARIN	Bark				--
0	ALPH-METHOXY-ALIZARIN	Root Bark				--
0	ANTHRAGALLOL-2,3-DIMETHYLETHER	Wood				=ICMR(Indian Council of Medical Research). 1976. Medicinal Plants of India. Vol. 1. Indian Council of Med. Res. Cambridge Printing Works, New Delhi. 487 pp; ICMR. 1987. Medicinal Plants of India. Vol. 2. Indian Council of Med. Res. Cambr. Printing Works, New Delhi. 600pp
6	ANTHRAQUINONES	Tissue Culture		2500.0		--
6	ANTHRAQUINONES	Root		4000.0	-1.2032911231590375	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Leaf	520.0	2320.0	-0.22865365983286717	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Leaf	15000.0	67000.0	-0.9135631621816354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
9	ASPERULOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	ASPERULOSIDE	Leaf		1580.0		--
9	ASPERULOSIDE	Fruit		480.0		--
2	ASPERULOSIDIC-ACID	Fruit		500.0		--
20	BENZOIC-ACID	Fruit		8.0	-0.6617033802131775	--
9	BENZYL-ALCOHOL	Fruit		0.02	-0.6964205015638791	--
53	BETA-CAROTENE	Leaf		124.0	-0.5979257809111053	--
53	BETA-CAROTENE	Fruit		5.2	-0.14074912282020693	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Bark		8.6	-0.28393884038413764	--
47	BETA-SITOSTEROL	Tissue Culture		454.5	-0.6956812763733191	--
47	BETA-SITOSTEROL	Leaf				--
32	BIOCHANIN-A	Wood				--
0	BUTANOIC-ACID	Plant		0.31		--
28	CALCIUM	Leaf	360.0	1600.0	-1.1504449084444381	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	CAPROIC-ACID	Fruit				--
5	CAPRYLIC-ACID	Fruit				--
0	CARBOHYDRATES	Leaf	86000.0	384000.0	-1.8120006981572065	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	DAMNACANTHAL	Root				--
3	DAMNACANTHAL	Tissue Culture				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
3	DEACETYLASPERULOSIDI C-ACID	Fruit		33.3		--
3	DECANOIC-ACID	Fruit		0.66	-0.7080135217999561	--
2	ELAIDIC-ACID	Fruit		0.12		--
0	ETHYL-DECANOATE	Fruit		0.08	-1.0000000000000002	--
0	ETHYL-HEXANOATE	Fruit		0.05	-0.9999999999999999	--
0	ETHYL-OCTANOATE	Fruit		0.19	-1.0000000000000002	--
1	ETHYL-PALMITATE	Fruit		0.02	-0.7248806618683252	--
0	ETHYLTHIOMETHYL-BENZENE	Fruit		0.03		--
76	EUGENOL	Fruit		0.01	-0.7071070758144754	--
0	FAT	Leaf	78000.0	348200.0	5.81339902071902	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Leaf	40000.0	178570.0	0.21065829524697197	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GENTISIC-ACID	Leaf				Griffiths, L. A. 1959. On the Distribution of Gentisic Acid in Green Plants. J. Exp. Biol. 10: 437.
7	GLUCOSE	Fruit				--
0	HEPTANOIC-ACID	Fruit		0.04	-0.999999999999999	--
0	HEXANAMIDE	Fruit		0.01		--
0	HEXANEDIOIC-ACID	Fruit		0.03		--
2	HEXANOIC-ACID	Fruit		8.0	0.999999999999999	--
0	HEXOIC-ACID	Fruit				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
6	IRON	Leaf	23.0	100.0	-0.6671043883180953	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	KILOCALORIES	Leaf	1070.0	4775.0	2.83199785043198	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	LAURIC-ACID	Fruit		0.07	-0.44552314765590934	--
60	LIMONENE	Fruit		0.17	-0.7501794290640288	--
27	LINOLEIC-ACID	Fruit		0.02	-0.3553995878716523	--
4	LUCIDIN	Tissue Culture		600.0		--
0	LUCIDIN-3-O-BETA-PRIMEVEROSIDE	Tissue Culture		749.0		--
0	LUCIDIN-3-PRIMEVEROSIDE	Tissue Culture				--
0	LUCIDIN-OMEGA-ETHYL-ETHER	Tissue Culture				--
0	METHYL-DECANOATE	Fruit		0.25	1.0	--
0	METHYL-ELAIDATE	Fruit		0.02		--
0	METHYL-OCTANOATE	Fruit		0.37	-1.0	--
0	METHYL-OLEATE	Fruit		0.01		--
0	METHYL-PALMITATE	Fruit		0.02	-1.0	--
0	MONO-ETHOXY-RUBIADIN	Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MONO-METHOXY-RUBIADIN	Root Bark				--
2	MONOTROPEIN	Leaf		1580.0		--
0	MORINDADIOL	Plant				--
0	MORINDIN	Root Bark				--
0	MORINDIN	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	MORINDONE	Tissue Culture		145.5		--
1	MORINDONE	Heart Wood		50.0		--
1	MORINDONE	Plant				--
0	MORINDONE-6BETA-PRIMEVEROSIDE	Tissue Culture		709.0		--
6	MYRISTIC-ACID	Fruit		0.06	-0.2691408673141971	--
39	NIACIN	Leaf	72.0	321.0	2.718552846487764	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	NONANOIC-ACID	Fruit		0.01	-0.741247510288	--
1	NOR-DAMNACANTHAL	Tissue Culture				--
1	NOR-DAMNACANTHAL	Root		17000.0		--
5	OCTANOIC-ACID	Fruit		25.0	1.7148561198407046	--
0	OCTOIC-ACID	Fruit				Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
18	OLEIC-ACID	Fruit		0.03	-0.4807449301448029	--
13	PALMITIC-ACID	Fruit		0.21	-0.3655323408481512	--
4	PARAFFIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Leaf	150.0	670.0	-0.7914116184981296	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	PHYSICION	Heart Wood		37.5		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHYSICION-8-O-[(ALPHA-L-ARABINOPYRANOSYL(1-3)]-[BETA-D-GALACTOPYRANOSYL(1-6)]-BETA-D-GALACTOPYRANOSIDE	Heart Wood		75.0		--
0	PROTEIN	Leaf	45000.0	200890.0	-0.10928720264248172	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Leaf	0.9	4.0	-0.15911158075734227	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	RUBERYTHRIC-ACID	Bark				--
1	RUBIADIN	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	RUBIADIN	Tissue Culture		127.3		--
3	RUBIADIN-1-METHYL-ETHER	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	RUBICHLORIC-ACID	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
87	RUTIN	Fruit		500.0	-0.5964904095908007	--
44	SCOPOLETIN	Fruit		0.85	-0.8731393265552875	--
0	SORANJIDOL	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
31	THIAMIN	Leaf	1.6	7.0	-0.2718958403939485	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TRIHYDROXYMETHYLANTHRAQUINONE-MONOMETHYLETER	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	UNDECANOIC-ACID	Fruit		0.02	-1.0	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
89	URSOLIC-ACID	Leaf				--
0	VOMIFOLIOL	Fruit		0.4		--
0	WATER	Leaf		776000.0	-0.15783981421204993	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses