

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Acorus calamus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	STARCH	Rhizome	250000.0	400000.0	-0.21818381438712206	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	EO	Rhizome	10000.0	100000.0	0.7957851377946111	--
15	ASARONE	Rhizome	2100.0	48000.0		--
18	BETA-ASARONE	Rhizome	2000.0	80000.0		--
0	CALAMENOL	Rhizome	500.0	5000.0		--
0	CADALO-1,4,9-TRIENE	Rhizome	410.0	2050.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	EPISHYOBUNONE	Rhizome	402.0	2010.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALAMOL	Rhizome	320.0	3885.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	ISOEUGENOL	Rhizome	228.0	12510.0		--
0	ISOSHYOBUNONE	Rhizome	134.0	670.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ALPHA-ASARONE	Rhizome	132.0	6500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	METHYL-ISOEUGENOL	Rhizome	110.0	3950.0		--
0	CALAMONE	Rhizome	100.0	1000.0		--
0	CALAMENONE	Rhizome	100.0	500.0		--
5	BETA-ELEMENE	Rhizome	60.0	750.0	1.0692741796807936	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALAMENE	Rhizome	40.0	1920.0		--
0	LINALOL	Rhizome	30.0	6000.0	1.0	--
76	EUGENOL	Rhizome	30.0	300.0	-0.7161913723160901	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	LINALOOL	Rhizome	30.0	6000.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-GURJUNENE	Rhizome	20.0	1700.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
60	LIMONENE	Rhizome	10.0	1400.0	1.2836558613056794	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Rhizome	10.0	500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALAMENENE	Rhizome	10.0	4000.0	1.0	--
9	CAMPHENE	Rhizome	10.0	460.0	-1.0	--
16	ELEMICIN	Rhizome	10.0	650.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	DELTA-CADINENE	Rhizome	5.0	1050.0	1.4135121224933511	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Rhizome	0.0	100.0	-0.7982890747494946	--
16	P-CYMENE	Rhizome	0.0	50.0	-0.49356441935275247	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALARENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TROPONE	Plant				--
0	ACORIN	Plant		2000.0		--
9	OXALIC-ACID	Plant				--
13	GALANGIN	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	EUGENOL-METHYL-ETHER	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Rhizome		150.0	1.1206310514564426	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-ISOELEMICINE	Rhizome				--
0	2,4,5-TRIMETHOXYBENZALDEHYDE	Plant				--
1	ANEURINE	Plant				--
0	SEKISHONE	Rhizome		650.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DEXTRIN	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	(-)-BETA-CURCUMENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
30	MENTHONE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
9	ACORIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	OCIMENE	Plant				--
6	FURFURAL	Rhizome				--
0	EO	Shoot		1200.0	-0.8419644356923442	--
8	TRANS-ANETHOLE	Plant				--
0	ALPHA-YLANGENE	Rhizome		500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SAPONIN	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	DELTA-GUAZULENE	Plant				--
0	SITOSTEROL	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CALAMEONE	Rhizome		280.0		Abstract (See species file)
63	MENTHOL	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ACORENONE	Rhizome				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	N-HEPTYLIC-ACID	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	EO	Leaf		2000.0	-0.8386994921548646	--
9	TERPINOLENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
0	(+)-CALAMUSENONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
23	ALPHA-TERPINEOL	Rhizome		1500.0	1.3367642396634478	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
0	DELTA-CARENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
0	RESIN	Rhizome		25000.0	-1.3821894809301767	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	CALAMENONE	Plant				--
0	ACORENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
22	MYRCENE	Plant				--
24	ETHANOL	Rhizome				--
0	DELTA-CARENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
10	AZULENE	Rhizome				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	TERPINIC-ALCOHOL	Plant				--
0	ISOCALAMUSENONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	RESIN	Plant				--
13	PALMITIC-ACID	Rhizome				--
13	ALPHA-TERPINENE	Plant				--
41	CAMPHOR	Rhizome				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	ACORAMONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
3	MUCILAGE	Plant		8000.0	-1.4692496950899154	--
0	EPOXYISOACORAGERMACRONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
5	CIS-ISOASARONE	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
112	ASCORBIC-ACID	Plant				--
0	ISOCALAMINEDIOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	PREISOCALAMENDIOL	Rhizome				--
0	CRYPTOACORONE	Plant				--
0	ACOLAMONE	Rhizome				--
28	ALPHA-PINENE	Rhizome		280.0	-1.3131983079178744	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ACORAGERMACRONE	Plant				--
20	CHOLINE	Root		2600.0	-0.10560488367164568	--
0	ASARYLALDEHYDE	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
35	TANNIN	Plant				--
0	ISOCAESPITOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Rhizome		4.0	-1.4642120454178038	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
2	ALPHA-HUMULENE	Rhizome				--
2	ALPHA-HUMULENE	Plant				--
14	POTASSIUM	Rhizome		16000.0	0.33730143368752097	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	ISOACOLAMONE	Rhizome				--
35	BORNEOL	Plant				--
0	ACORADIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
20	METHYL-EUGENOL	Rhizome		1025.0	1.0	--
0	ASARONALDEHYDE	Rhizome		2830.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	SODIUM	Rhizome		459.0	-0.10043590174501253	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	ISOACORONE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CIS-ISOLEMICIN	Rhizome		50.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2,4,5-TRIMETHOXYBENZALDEHYDE	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
26	PHENOL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	IRON	Rhizome		350.0	-0.02674945738357939	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	CALACONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	BETA-CURCUMENE	Plant				--
0	ACOLAMONE	Plant				--
6	METHYL-CHAVICOL	Plant				--
0	ENANTHYLIC-ACID	Plant				--
0	ASARALDEHYDE	Plant				--
0	SITOSTEROL	Plant				--
9	TERPINOLENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
20	CHOLINE	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
35	TANNIN	Rhizome		15000.0		--
0	ACOROXIDE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PARASARONE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	GUAIENE	Rhizome				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CALACOLENE	Rhizome		100.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
77	ZINC	Rhizome				Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	ACETEUGENOL	Rhizome				--
1	METHYL-AMINE	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ARSENIC	Rhizome		1.13	1.6025541922926834	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	SHYOBUNONE	Rhizome		1850.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CARYOPHYLLINE	Rhizome				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ACORONE	Plant				--
13	PALMITIC-ACID	Plant				--
11	GAMMA-TERPINENE	Plant				--
1	TRIMETHYLAMINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2,6-DIEPISHYOBUNONE	Rhizome				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
14	MANGANESE	Rhizome		309.0	1.2244334870971068	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	2,5-DIMETHOXYBENZOQUINONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ARISTOLENE	Rhizome				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	SELINENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	PHENYLPROPANES	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	DIMETHYL-AMINE	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
28	CALCIUM	Rhizome		7040.0	0.024896656626718316	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	ACORINE	Plant				--
1	GAMMA-ASARONE	Plant				--
0	LUTEOLIN-6,8-C-DIGLUCOSIDE	Plant				--
6	BUTYRIC-ACID	Plant				--
0	TRANS-ISOEUGENOL-METHYL-ETHER	Plant				--
0	2,5-DIMETHOXYQUINONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
65	MAGNESIUM	Rhizome		1100.0	-0.5600893515913968	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
0	(-)-TROPONE	Plant				--
3	AR-CURCUMENE	Plant				--
0	SELINA-3,7(11)-DIENE	Essential Oil				--
2	P-METHOXYCINNAMALDEHYDE	Plant				Wolf, R.B. Effects Of p-Methoxycinnamaldehyde From Star Anise And Related Cinnamic Acid Derivatives On Velvetleaf Germination. Journal of Natural Products, 49(1): 156-158, 1986.
1	DEXTROSE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses