

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Acorus calamus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-CALAMUSENONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	(-)-BETA-CURCUMENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	(-)-TROPONE	Plant				--
67	1,8-CINEOLE	Rhizome	0.0	100.0	-0.7982890747494946	--
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.
0	2,4,5-TRIMETHOXYBENZALDEHYDE	Plant				--
0	2,5-DIMETHOXYBENZOQUINONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	2,5-DIMETHOXYQUINONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
0	ACETEUGENOL	Rhizome				--
0	ACOLAMONE	Rhizome				--
0	ACOLAMONE	Plant				--
0	ACORADIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ACORAGERMACRONE	Plant				--
0	ACORAMONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ACORENOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ACORENONE	Rhizome				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	ACORIC-ACID	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	ACORIN	Plant		2000.0		--
0	ACORINE	Plant				--
0	ACORONE	Plant				--
0	ACOROXIDE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ALPHA-ASARONE	Rhizome	132.0	6500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ALPHA-HUMULENE	Plant				--
2	ALPHA-HUMULENE	Rhizome				--
28	ALPHA-PINENE	Rhizome		280.0	-1.3131983079178744	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	ALPHA-TERPINENE	Plant				--
23	ALPHA-TERPINEOL	Rhizome		1500.0	1.3367642396634478	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-YLANGENE	Rhizome		500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ANEURINE	Plant				--
3	AR-CURCUMENE	Plant				--
0	ARISTOLENE	Rhizome				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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	ASARALDEHYDE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASARONALDEHYDE	Rhizome		2830.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
15	ASARONE	Rhizome	2100.0	48000.0		--
0	ASARYLALDEHYDE	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
112	ASCORBIC-ACID	Plant				--
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.
18	BETA-ASARONE	Rhizome	2000.0	80000.0		--
0	BETA-CURCUMENE	Plant				--
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	BETA-GURJUNENE	Rhizome	20.0	1700.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Rhizome		150.0	1.1206310514564426	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Plant				--
6	BUTYRIC-ACID	Plant				--
0	CADALO-1,4,9-TRIENE	Rhizome	410.0	2050.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CALACOLENE	Rhizome		100.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALACONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	CALAMENE	Rhizome	40.0	1920.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CALAMENENE	Rhizome	10.0	4000.0	1.0	--
0	CALAMENOL	Rhizome	500.0	5000.0		--
0	CALAMENONE	Rhizome	100.0	500.0		--
0	CALAMENONE	Plant				--
0	CALAMEONE	Rhizome		280.0		Abstract (See species file)
0	CALAMOL	Rhizome	320.0	3885.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALAMONE	Rhizome	100.0	1000.0		--
0	CALARENE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
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.
9	CAMPHENE	Rhizome	10.0	460.0	-1.0	--
41	CAMPHOR	Rhizome				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	CARYOPHYLLINE	Rhizome				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
20	CHOLINE	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
20	CHOLINE	Root		2600.0	-0.10560488367164568	--
5	CIS-ISOASARONE	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	CIS-ISOELEMICIN	Rhizome		50.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

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.
0	CRYPTOACORONE	Plant				--
9	DELTA-CADINENE	Rhizome	5.0	1050.0	1.4135121224933511	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DELTA-CARENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
0	DELTA-CARENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	DELTA-GUAZULENE	Plant				--
0	DEXTRIN	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	DEXTROSE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
16	ELEMICIN	Rhizome	10.0	650.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ENANTHYLIC-ACID	Plant				--
0	EO	Rhizome	10000.0	100000.0	0.7957851377946111	--
0	EO	Shoot		1200.0	-0.8419644356923442	--
0	EO	Leaf		2000.0	-0.8386994921548646	--
0	EPISHYOBUNONE	Rhizome	402.0	2010.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EPOXYISOACORAGERMACRONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
24	ETHANOL	Rhizome				--
76	EUGENOL	Rhizome	30.0	300.0	-0.7161913723160901	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	EUGENOL-METHYL-ETHER	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
6	FURFURAL	Rhizome				--
13	GALANGIN	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	GAMMA-ASARONE	Plant				--
11	GAMMA-TERPINENE	Plant				--
0	GUAIENE	Rhizome				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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	ISOACOLAMONE	Rhizome				--
0	ISOACORONE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ISOCAESPITOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ISOCALAMINEDIOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ISOCALAMUSENONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
60	LIMONENE	Rhizome	10.0	1400.0	1.2836558613056794	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LINALOL	Rhizome	30.0	6000.0	1.0	--

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53	LINALOOL	Rhizome	30.0	6000.0	1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	LUTEOLIN-6,8-C-DIGLUCOSIDE	Plant				--
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.
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.
63	MENTHOL	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
30	MENTHONE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
1	METHYL-AMINE	Rhizome				--
6	METHYL-CHAVICOL	Plant				--
20	METHYL-EUGENOL	Rhizome		1025.0	1.0	--
15	METHYL-ISOEUGENOL	Rhizome	110.0	3950.0		--
3	MUCILAGE	Plant		8000.0	-1.4692496950899154	--
22	MYRCENE	Plant				--
0	N-HEPTYLIC-ACID	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	OCIMENE	Plant				--
9	OXALIC-ACID	Plant				--
16	P-CYMENE	Rhizome	0.0	50.0	-0.49356441935275247	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Plant				--
13	PALMITIC-ACID	Rhizome				--
0	PARASARONE	Rhizome				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
26	PHENOL	Plant				--
0	PHENYLPROPANES	Rhizome				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
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	PREISOCALAMENDIOL	Rhizome				--
0	RESIN	Plant				--
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.
5	SABINENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
0	SAPONIN	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	SEKISHONE	Rhizome		650.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SELINA-3,7(11)-DIENE	Essential Oil				--
1	SELINENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	SHYOBUNONE	Rhizome		1850.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	SITOSTEROL	Plant				--

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0	SITOSTEROL	Rhizome				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
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.
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.
35	TANNIN	Rhizome		15000.0		--
35	TANNIN	Plant				--
23	TERPINEN-4-OL	Rhizome	10.0	500.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TERPINIC-ALCOHOL	Plant				--
9	TERPINOLENE	Rhizome				Pakistan Encyclopedia Planta Medica. 1986.
9	TERPINOLENE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
8	TRANS-ANETHOLE	Plant				--
0	TRANS-ISOELEMICINE	Rhizome				--
0	TRANS-ISOEUGENOL-METHYL-ETHER	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	TROPONE	Plant				--
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.