

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Acorus calamus*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Rhizome	--	100	-0.7982890747494946	
9	ACORIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	ALPHA-ASARONE	Rhizome	132	6500		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	280	-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	1500	1.3367642396634478	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	ANEURINE	Plant	--	--		
3	AR-CURCUMENE	Plant	--	--		
2	ARSENIC	Rhizome	1.13	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.
15	ASARONE	Rhizome	2100	48000		
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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	BETA-ASARONE	Rhizome	2000	48000		
5	BETA-ELEMENE	Rhizome	60	750	1.0692741796807936	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Rhizome	150	150	1.1206310514564426	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Plant	--	--		
6	BUTYRIC-ACID	Plant	--	--		
28	CALCIUM	Rhizome	7040	7040	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	460	-1	
41	CAMPHOR	Rhizome	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
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	-0.10560488367164568	
5	CIS-ISOASARONE	Rhizome	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
12	COPPER	Rhizome	4	4	-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.
9	DELTA-CADINENE	Rhizome	5	1050	1.4135121224933511	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
1	DEXTROSE	Rhizome	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity 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.
16	ELEMICIN	Rhizome	10	650		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
24	ETHANOL	Rhizome	--	--		
76	EUGENOL	Rhizome	30	300	-0.7161913723160901	
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	--	--		
6	IRON	Rhizome	350	350	-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.
16	ISOEUGENOL	Rhizome	228	12510		
60	LIMONENE	Rhizome	10	1400	1.2836558613056794	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	LINALOOL	Rhizome	30	6000	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
65	MAGNESIUM	Rhizome	1100	1100	-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.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Rhizome	309	309	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	1025	1	
15	METHYL-ISOEUGENOL	Rhizome	110	3950		
3	MUCILAGE	Plant	8000	8000	-1.4692496950899154	
22	MYRCENE	Plant	--	--		
2	OCIMENE	Plant	--	--		
9	OXALIC-ACID	Plant	--	--		
16	P-CYMENE	Rhizome	--	50	-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.
13	PALMITIC-ACID	Plant	--	--		
13	PALMITIC-ACID	Rhizome	--	--		
26	PHENOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Rhizome	16000	16000	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.
5	SABINENE	Rhizome	--	--		Pakistan Encyclopedia Planta Medica. 1986.
1	SELINENE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
1	SODIUM	Rhizome	459	459	-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	400000	-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		
35	TANNIN	Plant	--	--		
23	TERPINEN-4-OL	Rhizome	10	500		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Rhizome	--	--		Pakistan Encyclopedia Planta Medica. 1986.
9	TERPINOLENE	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
8	TRANS-ANETHOLE	Plant	--	--		
1	TRIMETHYLAMINE	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.