

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 | Rhizome | -- | -- | | |
| 2 | ALPHA-HUMULENE | Plant | -- | -- | | |
| 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 | Root | -- | 2600 | -0.10560488367164568 | |
| 20 | CHOLINE | Rhizome | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 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. |

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|----------------|-------------------------|------------|---------|----------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | -- | -- | | |

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| 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. |