

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Coriandrum sativum*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------|------------------|----------|----------|-----------------------|--|
| 53 | LINALOOL | Seed Essent. Oil | 414190.0 | 742300.0 | 2.216550400992289 | -- |
| 0 | PETROSELINIC-ACID | Seed | | 718000.0 | 0.7588317381879648 | -- |
| 0 | CARBOHYDRATES | Fruit | 549900.0 | 603240.0 | -0.9606363699519014 | USDA's Ag Handbook 8 and sequelae) |
| 0 | CARBOHYDRATES | Leaf | 73000.0 | 589000.0 | -0.18171460401226272 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 53 | LINALOOL | Essential Oil | | 568000.0 | 1.9636483678850598 | -- |
| 15 | FIBER | Fruit | 291000.0 | 319000.0 | 1.6733109057803188 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | PROTEIN | Leaf | 26000.0 | 236000.0 | 0.24096897154066135 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | FAT | Fruit | 110000.0 | 210000.0 | 0.9627110184734524 | -- |
| 0 | LINALOOL-ACETATE | Seed Essent. Oil | | 207780.0 | 1.4141992183349599 | -- |
| 0 | SUGARS | Fruit | | 200000.0 | -0.058650417947657976 | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | PROTEIN | Fruit | 110000.0 | 170000.0 | 0.8110483798465427 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 18 | OLEIC-ACID | Fruit | 39930.0 | 167819.0 | 0.8126920882556948 | -- |
| 0 | ASH | Leaf | 19000.0 | 153000.0 | 0.6016512590064101 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 27 | LINOLEIC-ACID | Seed | | 132000.0 | 0.2131554891088805 | -- |
| 15 | FIBER | Leaf | 16000.0 | 129000.0 | -0.4023315981418849 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | WATER | Fruit | 86000.0 | 112000.0 | -2.8635489476544933 | -- |
| 0 | PETROSELINIC-ACID | Fruit | 40700.0 | 111300.0 | 0.26077456937086446 | -- |
| 5 | STARCH | Fruit | | 100000.0 | -0.30384740496903184 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------|------------------|---------|----------|----------------------|--|
| 0 | PENTOSANS | Fruit | | 100000.0 | 0.21063680874408397 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 18 | OLEIC-ACID | Seed | | 94000.0 | -0.20636501961421735 | -- |
| 0 | WATER | Leaf | | 73000.0 | -3.6650941195552518 | USDA's Ag Handbook 8 and sequelae) |
| 0 | DECYL-ALDEHYDE | Seed Essent. Oil | | 70100.0 | | -- |
| 35 | BORNEOL | Seed Essent. Oil | 15500.0 | 70100.0 | | -- |
| 35 | GERANIOL | Seed Essent. Oil | 6720.0 | 69700.0 | 0.1099647159636269 | -- |
| 71 | THYMOL | Seed Essent. Oil | | 68140.0 | 1.4139493228546411 | -- |
| 0 | P-CYMOL | Seed Essent. Oil | | 67300.0 | | -- |
| 0 | FURFUROL | Fruit | | 60000.0 | 1.0 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 41 | CAMPHOR | Seed Essent. Oil | | 58300.0 | 1.0 | -- |
| 13 | PALMITIC-ACID | Seed Essent. Oil | | 58200.0 | | -- |
| 0 | BETA-CARYOPHYLLENE | Seed Essent. Oil | 1600.0 | 55470.0 | 1.0 | -- |
| 28 | ALPHA-PINENE | Seed Essent. Oil | 11400.0 | 52980.0 | -0.3763795265608634 | -- |
| 0 | FAT | Leaf | 6000.0 | 50000.0 | -0.12876910250125184 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | GERANIOL-ACETATE | Seed Essent. Oil | 10850.0 | 49600.0 | 0.5110243254136062 | -- |
| 14 | POTASSIUM | Leaf | 5600.0 | 48177.0 | 0.7874620147860205 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 11 | GAMMA-TERPINENE | Seed Essent. Oil | | 40800.0 | -0.2831900813123795 | -- |
| 0 | EO | Fruit | 2000.0 | 26000.0 | -0.31459959995392905 | -- |
| 23 | ALPHA-TERPINEOL | Seed Essent. Oil | | 23200.0 | -0.591786991122015 | -- |
| 13 | ALPHA-TERPINENE | Seed Essent. Oil | 200.0 | 19700.0 | 0.21421162836665333 | -- |
| 60 | LIMONENE | Seed Essent. Oil | 15500.0 | 18950.0 | -0.7918374700341749 | -- |
| 3 | BETA-PHELLANDRENE | Seed Essent. Oil | 400.0 | 18600.0 | -0.3304275521980012 | -- |
| 27 | LINOLEIC-ACID | Fruit | 13030.0 | 18260.0 | -0.09777897022873985 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------|------------------|---------|----------|----------------------|--|
| 0 | LINALOL | Fruit | 4060.0 | 16900.0 | 2.2611501905393587 | -- |
| 13 | PALMITIC-ACID | Fruit | 2160.0 | 16800.0 | -0.10399513962361799 | -- |
| 0 | EO | Seed Essent. Oil | 100.0 | 14900.0 | -1.0 | -- |
| 14 | POTASSIUM | Fruit | 11866.0 | 14781.0 | -0.27740968352885775 | USDA's Ag Handbook 8 and sequelae) |
| 15 | CITRONELLOL | Seed Essent. Oil | 6150.0 | 14620.0 | | -- |
| 28 | CALCIUM | Seed | 6465.0 | 14469.0 | 1.8958241168450043 | -- |
| 23 | TERPINEN-4-OL | Seed Essent. Oil | | 13800.0 | -0.5326666411126562 | -- |
| 67 | 1,8-CINEOLE | Seed Essent. Oil | | 13780.0 | -1.0 | -- |
| 28 | ALPHA-PINENE | Fruit | 819.0 | 13780.0 | 2.8789050860769403 | -- |
| 28 | CALCIUM | Leaf | 1330.0 | 13441.0 | -0.34137725941345665 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 13 | BETA-PINENE | Seed Essent. Oil | 2100.0 | 13400.0 | -0.7558724890143567 | -- |
| 53 | LINALOOL | Fruit | 400.0 | 10250.0 | 2.2811487887245883 | -- |
| 1 | CORIANDROL | Fruit | 400.0 | 10250.0 | | -- |
| 0 | EO | Leaf | | 10000.0 | -0.13502102138741875 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 3 | DIPHENYLAMINE | Fruit | | 9500.0 | | Karawy, M. S., Ehayyal, A. S. E., Farrag, N. M., Ayad, M. M. 1986. Screening of Diphenylamine as an Antihyperglycaemic Agent in Certain Edible Plant Organs. Acta. Pharm. Hung, 56: 55-58. |
| 9 | CAMPHENE | Seed Essent. Oil | 2100.0 | 7600.0 | 1.2973683379921246 | -- |
| 1 | SODIUM | Leaf | 940.0 | 7581.0 | 0.6991528552357646 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 65 | MAGNESIUM | Leaf | 6940.0 | 7488.0 | 1.2982818168844166 | USDA's Ag Handbook 8 and sequelae) |
| 0 | ASH | Seed | 6000.0 | 6600.0 | -1.2416079828374493 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 22 | MYRCENE | Seed Essent. Oil | | 6500.0 | -0.6568116875911565 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------|------------------|---------|----------|----------------------|--|
| 4 | PHOSPHORUS | Leaf | 720.0 | 6452.0 | 0.27240108248500583 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 112 | ASCORBIC-ACID | Leaf | 780.0 | 6290.0 | 0.13971175200302013 | -- |
| 10 | NEROL | Seed Essent. Oil | | 6150.0 | 1.0 | -- |
| 0 | N-TETRADECANOIC-ACID | Seed Essent. Oil | | 5700.0 | | -- |
| 9 | TERPINOLENE | Seed Essent. Oil | | 5300.0 | -0.303409676929149 | -- |
| 4 | PHOSPHORUS | Fruit | 3907.0 | 4687.0 | 0.4468028530022447 | USDA's Ag Handbook 8 and sequela) |
| 6 | DILLAPIOL | Seed Essent. Oil | | 4500.0 | | -- |
| 2 | ELEMOL | Seed Essent. Oil | | 4130.0 | | -- |
| 65 | MAGNESIUM | Fruit | 2939.0 | 4016.0 | 0.8734494335760973 | USDA's Ag Handbook 8 and sequela) |
| 8 | CARYOPHYLLENE-OXIDE | Seed Essent. Oil | | 3610.0 | | -- |
| 11 | GAMMA-TERPINENE | Fruit | 762.0 | 2626.0 | -0.16808278013485026 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 7-DODECENAL | Leaf | | 2131.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | DODECAN-1-AL | Seed Essent. Oil | | 2000.0 | | -- |
| 8 | STEARIC-ACID | Seed Essent. Oil | | 2000.0 | | -- |
| 0 | NEROL-ACETATE | Seed Essent. Oil | | 1900.0 | | -- |
| 0 | CIS-LINALOOL-OXIDE | Seed Essent. Oil | | 1800.0 | | -- |
| 0 | TETRADECAN-1-AL | Seed Essent. Oil | | 1800.0 | | -- |
| 2 | DODECANAL | Leaf | | 1627.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 5 | MYRTENAL | Seed Essent. Oil | | 1600.0 | | -- |
| 1 | DECAN-1-AL | Seed Essent. Oil | | 1500.0 | | -- |
| 0 | CIS-P-COUMARIC-ACID | Fruit | | 1440.0 | | Abstract (See species file) |
| 5 | SABINENE | Seed Essent. Oil | | 1400.0 | -0.4936167585696178 | -- |
| 20 | CHOLINE | Seed | | 1387.0 | -0.26859216208459646 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------|------------------|---------|----------|----------------------|--|
| 0 | CIS-FERULIC-ACID | Fruit | | 1360.0 | | Abstract (See species file) |
| 41 | CAMPHOR | Fruit | 100.0 | 1300.0 | 1.6456434313757062 | -- |
| 13 | GERANIAL | Seed Essent. Oil | | 1300.0 | | -- |
| 60 | LIMONENE | Fruit | 34.0 | 1238.0 | -0.5726537627760642 | -- |
| 8 | STEARIC-ACID | Fruit | 1100.0 | 1207.0 | -0.1991755963123703 | USDA's Ag Handbook 8 and sequelae) |
| 0 | TRANS-P-COUMARIC-ACID | Fruit | | 1120.0 | | Abstract (See species file) |
| 2 | PALMITOLEIC-ACID | Fruit | 1000.0 | 1097.0 | -0.14493129159756157 | USDA's Ag Handbook 8 and sequelae) |
| 0 | DECANAL | Leaf | | 1005.0 | 1.4142130678317626 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 5 | GERANYL-ACETATE | Fruit | 52.0 | 988.0 | 0.7226725134299015 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 24 | VANILLIC-ACID | Fruit | | 960.0 | 1.0 | Abstract (See species file) |
| 13 | P-HYDROXY-BENZOIC-ACID | Fruit | | 960.0 | 1.409967005275492 | Abstract (See species file) |
| 0 | 9-TETRADECENAL | Leaf | | 924.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 112 | ASCORBIC-ACID | Fruit | | 920.0 | -0.22728617216267144 | -- |
| 0 | TRANS-BETA-OCIMENE | Seed Essent. Oil | | 900.0 | | -- |
| 16 | P-CYMENE | Seed Essent. Oil | | 900.0 | -1.547238257753332 | -- |
| 102 | CAFFEIC-ACID | Fruit | | 770.0 | -0.1963560462638582 | -- |
| 43 | PROTocatechuic-ACID | Fruit | | 760.0 | 0.9999999999999999 | Abstract (See species file) |
| 16 | P-CYMENE | Fruit | 74.0 | 728.0 | -0.4833946204797754 | -- |
| 1 | ETHYL-PALMITATE | Fruit | 46.0 | 598.0 | 1.4140633715418722 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 5,8-TRIDECADIENAL | Leaf | | 561.0 | | 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 |
|------------------|------------------------|------------------|---------|----------|----------------------|--|
| 0 | ETHYL-STEARATE | Fruit | 42.0 | 546.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 6 | IRON | Leaf | 30.0 | 528.0 | 0.41776327197286667 | -- |
| 0 | OCTANOL | Leaf | | 504.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CIS-FERULIC-ACID | Plant | | 467.0 | | Abstract (See species file) |
| 2 | PHYTOSTEROLS | Fruit | | 460.0 | -0.6252997452058894 | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 35 | GERANIOL | Fruit | 34.0 | 442.0 | 2.099882842620517 | -- |
| 1 | SODIUM | Fruit | 308.0 | 430.0 | -0.14317436938042027 | USDA's Ag Handbook 8 and sequelae) |
| 0 | BICYCLOGERMACRENE | Seed Essent. Oil | | 400.0 | | -- |
| 24 | VANILLIC-ACID | Plant | 221.0 | 347.0 | 1.4132666574417567 | Abstract (See species file) |
| 0 | 3,6-UNDECADIENAL | Leaf | | 342.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 13 | P-HYDROXY-BENZOIC-ACID | Plant | 252.0 | 333.0 | -1.0 | Abstract (See species file) |
| 77 | CHLOROGENIC-ACID | Plant | 305.0 | 320.0 | -0.6800911873139804 | Abstract (See species file) |
| 2 | UNDECANAL | Leaf | | 304.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CIS-P-COUMARIC-ACID | Plant | | 273.0 | | Abstract (See species file) |
| 53 | BETA-CAROTENE | Leaf | 29.0 | 228.0 | -0.14501134388228565 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 6 | IRON | Fruit | 112.0 | 227.0 | 0.3729596362352439 | -- |
| 47 | BETA-SITOSTEROL | Fruit | | 220.0 | -0.5051872230351605 | -- |
| 6 | MYRISTIC-ACID | Fruit | 200.0 | 219.0 | -0.2588121993964581 | USDA's Ag Handbook 8 and sequelae) |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------|------------|---------|----------|----------------------|--|
| 12 | STIGMASTEROL | Fruit | | 180.0 | 1.3242602946608402 | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 43 | PROTocatechuic-acid | Plant | 167.0 | 179.0 | 0.8781551128951783 | Abstract (See species file) |
| 0 | TRANS-P-Coumaric-acid | Plant | | 173.0 | | Abstract (See species file) |
| 22 | MYRCENE | Fruit | 13.0 | 169.0 | -0.3581922077232703 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | TRIDecANAL | Leaf | | 168.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ETHYL-LINOLATE | Fruit | 13.0 | 166.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | CAMPHENE | Fruit | 2.0 | 155.0 | -0.2875286008211722 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 1 | ETHYL-MYRISTATE | Fruit | 12.0 | 153.0 | 1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 39 | NIACIN | Leaf | 13.0 | 136.0 | 0.468288830503172 | -- |
| 0 | TETRADECANAL | Leaf | | 132.0 | 0.9999999999999998 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 6-UNDECENAL | Leaf | | 130.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | OXALIC-ACID | Fruit | | 120.0 | -0.29973195119586477 | -- |
| 1 | TOLUENE | Leaf | | 117.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | TRANS-2-DODECANAL | Fruit | 9.0 | 114.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | DIHYDROCORIANDRIN | Shoot | 0.2 | 113.0 | | -- |
| 1 | CORIANDRIN | Shoot | 4.2 | 106.6 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------|------------|---------|----------|----------------------|--|
| 0 | 5-DECENAL | Leaf | | 101.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 3-OCTENAL | Leaf | | 97.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 8-METHYNON-5-ENAL | Leaf | | 96.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CORIANDRONE-A | Shoot | | 94.0 | | -- |
| 13 | BETA-PINENE | Fruit | 69.0 | 83.0 | -0.2951842276648527 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 5 | SABINENE | Fruit | 1.0 | 83.0 | -0.509533484990146 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | DECANAL | Fruit | 6.0 | 80.0 | 0.4493870962844483 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 23 | TERPINEN-4-OL | Fruit | 6.0 | 80.0 | -0.34623106760257755 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 14 | MANGANESE | Leaf | | 64.0 | -0.35348854285141834 | USDA's Ag Handbook 8 and sequelae) |
| 0 | CORIANDRINONEDIOL | Seed | | 60.0 | | -- |
| 35 | BORNEOL | Fruit | 2.0 | 54.0 | -0.7079078334166587 | -- |
| 77 | ZINC | Fruit | 34.0 | 52.0 | 0.6528169783274335 | -- |
| 9 | OXALIC-ACID | Leaf | | 50.0 | -0.4746637714382876 | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| 0 | CORIANDRONE-B | Shoot | | 50.0 | | -- |
| 23 | ALPHA-TERPINEOL | Fruit | 36.0 | 44.0 | -0.3723049247176171 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 19 | ACETYL-CHOLINE | Seed | | 43.0 | -0.7564731555082913 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------|------------|---------|----------|----------------------|---|
| 18 | CINNAMIC-ACID | Plant | | 40.0 | 1.0 | Abstract (See species file) |
| 2 | CAMPESTEROL | Fruit | | 30.0 | -0.4046460894399287 | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 4 | BORON | Seed | 9.0 | 29.0 | 0.23188918012153775 | Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron). |
| 24 | CHROMIUM | Seed | | 28.8 | 3.513354178720076 | -- |
| 0 | DECYL-ALDEHYDE | Fruit | 2.0 | 27.0 | | -- |
| 19 | CARVONE | Fruit | 21.0 | 26.0 | -0.4990970041084822 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | TERPINOLENE | Fruit | 13.0 | 26.0 | -0.5876858204442595 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 39 | NIACIN | Fruit | 21.0 | 23.0 | -0.5039583507406544 | USDA's Ag Handbook 8 and sequela) |
| 0 | LINALOL-OXIDE | Fruit | 2.0 | 21.0 | | -- |
| 0 | LINALOOL-OXIDE | Fruit | 2.0 | 21.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 15 | RIBOFLAVIN | Leaf | 1.0 | 21.0 | -0.07942432526480918 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 14 | MANGANESE | Fruit | 18.0 | 19.0 | -0.27825396850008577 | -- |
| 0 | TRANS-2-DECANAL | Fruit | 1.0 | 18.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 12 | COPPER | Leaf | | 18.0 | -0.2657646170188676 | USDA's Ag Handbook 8 and sequela) |
| 0 | NONANAL | Fruit | 1.0 | 18.0 | -0.06494936824868595 | 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 |
|------------------|--|------------|---------|----------|-----------------------|--|
| 11 | NEROLIDOL | Fruit | 14.0 | 17.0 | -0.7181710539929176 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 25 | P-COUMARIC-ACID | Fruit | | 16.0 | -0.700035632491875 | -- |
| 31 | THIAMIN | Leaf | 1.0 | 16.0 | 1.6037378639175852 | -- |
| 13 | ALPHA-TERPINENE | Fruit | 1.0 | 15.0 | -0.37657545814518684 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CORIANDRONE-A | Plant | | 13.0 | | -- |
| 12 | COPPER | Fruit | 10.0 | 13.0 | 0.014090749380317144 | -- |
| 3 | BETA-PHELLANDRENE | Fruit | 1.0 | 13.0 | -0.4703263293427 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | 2-(4-HYDROXY-PHENYL)-2-METHOXY-ETHANOL | Plant | | 12.0 | | -- |
| 61 | FERULIC-ACID | Plant | | 11.0 | -1.3788754333101605 | -- |
| 2 | UNDECANAL | Fruit | 1.0 | 8.0 | 1.4065369194811357 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | KAEMPFEROL-3-O-ALPHA-L-(2,3-DI-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE) | Plant | | 8.0 | | -- |
| 0 | BENZOIC-ACID-4-O-BETA-D-GLUCOSIDE | Fruit | | 8.0 | | -- |
| 15 | CITRONELLOL | Fruit | 0.0 | 8.0 | -0.021396130240373637 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 31 | CARYOPHYLLENE | Fruit | 1.0 | 8.0 | -0.39580267370453653 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | ETHYL-PENTEDECANOATE | Fruit | 0.0 | 5.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 1-(4-HYDROXY-PHENYL)-ETHANE-1,2-DIOL | Plant | | 4.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------------|---------|----------|----------------------|--|
| 15 | RIBOFLAVIN | Fruit | 3.0 | 4.0 | -0.21615825716438572 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 31 | THIAMIN | Fruit | 2.0 | 3.0 | -0.29859918253223444 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | (-)-4(R)-BETA-HYDROXY-PHENETHYL-FERULIC-ACID | Plant | | 3.0 | | -- |
| 3 | NICKEL | Fruit | | 2.4 | -0.04957166517347313 | -- |
| 0 | KAEMPFEROL-3-O-ALPHA-L-(3-TRANS-P-COUMAROYL-RHAMNOPYRANOSIDE) | Plant | | 2.0 | | -- |
| 8 | TRANS-ANETHOLE | Fruit | 1.0 | 2.0 | -0.9957288082990997 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | CORIANDRONE-B | Plant | | 1.3 | | -- |
| 1 | P-HYDROXYCINNAMIC-ACID | Plant | | 1.1 | -1.0000000000000002 | -- |
| 16 | ACETIC-ACID | Fruit | | 1.0 | -0.6428126249807119 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 4-HYDROXY-BENZOIC-ACID | Plant | | 0.9 | | -- |
| 2 | COBALT | Fruit | | 0.9 | -0.42616188431853125 | -- |
| 0 | CORIANDRONE-E | Plant | | 0.6 | | -- |
| 1 | CORIANDRIN | Plant | | 0.5 | | -- |
| 0 | DIHYDROCORIANDRIN | Plant | | 0.4 | | -- |
| 0 | VERATRIC-ACID | Plant | | 0.3 | | -- |
| 0 | ESCLETIN-DIMETHYL-ETHER | Plant | | 0.2 | | -- |
| 0 | UNDECAN-1-AL | Seed Essent. Oil | | 0.2 | | -- |
| 0 | 2-(4-HYDROXY-PHENYL)-ETHANOL | Plant | | 0.2 | | -- |
| 0 | CORIANDRONE-C | Plant | | 0.12 | | -- |
| 0 | DAPHNETIN-8-O-BETA-D-GLUCOSIDE | Plant | | 0.12 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------|---------------|---------|----------|----------------------|--|
| 1 | ISOSCOPOLETIN | Plant | | 0.1 | | -- |
| 4 | SYRINGALDEHYDE | Plant | | 0.1 | | -- |
| 22 | UMBELLIFERONE | Plant | | 0.1 | | -- |
| 0 | CORIANDRONE-D | Plant | | 0.09 | | -- |
| 0 | ABSCISIC-ACID | Fruit | | 0.03 | -1.0 | -- |
| 53 | BETA-CAROTENE | Seed | | 0.0 | -0.42930857989782434 | -- |
| 14 | ARGININE | Leaf | | | | -- |
| 3 | CIS-OCIMENE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 4 | LYSINE | Leaf | | | | -- |
| 0 | CAR-3-ENE | Essential Oil | | | | -- |
| 15 | CITRONELLOL | Essential Oil | | | | -- |
| 102 | CAFFEIC-ACID | Leaf | | | | -- |
| 67 | 1,8-CINEOLE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 5 | SABINENE | Essential Oil | | | | -- |
| 35 | TANNIN | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | 3'-METHOXY-QUERCETIN | Leaf | | | | -- |
| 8 | TYROSINE | Fruit | | | | -- |
| 7 | PHENYLALANINE | Fruit | | | | -- |
| 2 | LEUCINE | Leaf | | | | -- |
| 10 | NEROL | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | TERPINOLENE | Essential Oil | | | | -- |
| 17 | ANGELICIN | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------|---------------|---------|----------|--------|--|
| 22 | UMBELLIFERONE | Fruit | | | | -- |
| 4 | LYSINE | Fruit | | | | -- |
| 41 | CAMPHOR | Essential Oil | | | | -- |
| 3 | (-)-BORNEOL | Essential Oil | | | | -- |
| 29 | TRYPTOPHAN | Leaf | | | | -- |
| 7 | PHENYLALANINE | Leaf | | | | -- |
| 18 | RHAMNETIN | Fruit | | | | 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 | NEOCNIDILIDE | Fruit | | | | 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. |
| 13 | BETA-PINENE | Essential Oil | | | | -- |
| 23 | TERPINEN-4-OL | Essential Oil | | | | -- |
| 35 | GERANIOL | Essential Oil | | | | -- |
| 22 | ISOQUERCITRIN | Fruit | | | | -- |
| 0 | ALPHA-THUJENE | Essential Oil | | | | -- |
| 0 | EO | Seed | | | | -- |
| 10 | 5-METHOXY-PSORALEN | Fruit | | | | -- |
| 43 | XANTHOTOXIN | Fruit | | | | -- |
| 87 | RUTIN | Shoot | | | | -- |
| 0 | LINOLEIC-ACID-ETHYL-ESTER | Essential Oil | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------|---------------|---------|----------|--------|--|
| 101 | APIGENIN | Fruit | | | | 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 | TRICOSAN-1-OL | Seed | | | | -- |
| 0 | PETROSELINIC-ACID | Seed Oil | | | | -- |
| 0 | QUERCETIN-3-GLUCURONIDE | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 31 | MYRISTICIN | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | D-MANNITOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 18 | OLEIC-ACID | Seed Oil | | | | -- |
| 23 | ALPHA-TERPINEOL | Essential Oil | | | | -- |
| 0 | TRICOSANOL | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 12 | BORNYL-ACETATE | Fruit | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | QUERCETIN-GLYCOSIDE | Seed | | | | -- |
| 1 | TRIACONTAN-1-OL | Seed | | | | -- |
| 176 | QUERCETIN | Fruit | | | | 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. |
| 3 | BETA-PHELLANDRENE | Essential Oil | | | | -- |
| 0 | DECAN-1-OL | Essential Oil | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------|---------------|---------|----------|--------|--|
| 0 | D-DECYLALDEHYDE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 17 | ANGELICIN | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | OCTADECA-5,6-DIENOIC-ACID | Seed Oil | | | | -- |
| 0 | N-OCTADECANE | Essential Oil | | | | -- |
| 3 | TRIACONTANOL | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | 3',4'-DIMETHOXYQUERCETIN | Leaf | | | | -- |
| 9 | CAMPHENE | Essential Oil | | | | -- |
| 0 | DODECAN-1-OL | Essential Oil | | | | -- |
| 0 | BETA-SITOSTEROL-D-GLYCOSIDE | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 3 | VALINE | Fruit | | | | -- |
| 0 | QUERCETIN-GLYCOSIDE | Fruit | | | | -- |
| 0 | LINALOOL-OXIDE | Essential Oil | | | | -- |
| 0 | OCTADECANE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | TRANS-TRIDEC-2-EN-1-AL | Fruit | | | | -- |
| 1 | PALMITIC-ACID-ETHYL-ESTER | Essential Oil | | | | -- |
| 31 | PSORALEN | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 3 | ISOLEUCINE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------------------|---------------|---------|----------|--------|--|
| 0 | ALPHA-THUJENE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 14 | SUCROSE | Fruit | | | | -- |
| 0 | NONYL-ALDEHYDE | Leaf | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | N-HEPTADECANE | Essential Oil | | | | -- |
| 0 | PENTADECANAL | Leaf | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 11 | GAMMA-TERPINENE | Essential Oil | | | | -- |
| 3 | HOMOERIODICTYOL | Fruit | | | | 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. |
| 8 | FRUCTOSE | Fruit | | | | -- |
| 13 | ALPHA-TERPINENE | Essential Oil | | | | -- |
| 0 | TRIACONTANE | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | (R)-LINALOOL | Essential Oil | | | | -- |
| 3 | VALINE | Leaf | | | | -- |
| 2 | QUERCETIN-3-O-BETA-D-GLUCURONIDE | Fruit | | | | -- |
| 2 | OCIMENE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | TRANS-CITRAL | Essential Oil | | | | -- |
| 3 | ISOLEUCINE | Leaf | | | | -- |
| 26 | BERGAPTEN | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------|---------------|---------|----------|--------|--|
| 1 | DECAN-1-AL | Essential Oil | | | | -- |
| 0 | NONAN-1-AL | Essential Oil | | | | -- |
| 24 | PECTIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | GAMMA-SITOSTEROL | Fruit | | | | -- |
| 0 | HEPTADECANE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | TRANS-TRIDECEN-(2)-AL-(1) | Plant | | | | -- |
| 0 | (S)-(+)-LINALOOL | Essential Oil | | | | -- |
| 102 | CAFFEIC-ACID | Shoot | | | | -- |
| 0 | DODECAN-1-AL | Essential Oil | | | | -- |
| 1 | DODECANOL | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 176 | QUERCETIN | Leaf | | | | -- |
| 44 | SCOPOLETIN | Fruit | | | | -- |
| 7 | HISTIDINE | Fruit | | | | -- |
| 0 | DEC-TRANS-2-EN-1-AL | Essential Oil | | | | -- |
| 0 | DECYLIC-ACID-ESTER | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 31 | MYRISTICIN | Essential Oil | | | | -- |
| 77 | CHLOROGENIC-ACID | Shoot | | | | -- |
| 7 | GLUCOSE | Fruit | | | | -- |
| 28 | ALPHA-PINENE | Essential Oil | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------|---------------|---------|----------|--------|--|
| 0 | 3-O-METHYLKAEMPFEROL | Fruit | | | | 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 | (+)-LINALOOL | Essential Oil | | | | -- |
| 0 | STEARIC-ACID-ETHYL-ESTER | Essential Oil | | | | -- |
| 0 | DELTA-5,6-OCTADECENOIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | UNDECAN-1-AL | Essential Oil | | | | -- |
| 176 | QUERCETIN | Shoot | | | | -- |
| 0 | SACCHAROSE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 35 | BORNEOL | Essential Oil | | | | -- |
| 0 | DODEC-TRANS-2-EN-1-AL | Essential Oil | | | | -- |
| 12 | GLYCINE | Fruit | | | | -- |
| 3 | ASPARTIC-ACID | Fruit | | | | -- |
| 5 | DAUCOSTEROL | Seed | | | | -- |
| 10 | NEROL | Essential Oil | | | | -- |
| 22 | MYRCENE | Essential Oil | | | | -- |
| 0 | ETHYL-UNDECANOATE | Essential Oil | | | | -- |
| 0 | CORIANDRINOL | Fruit | | | | -- |
| 0 | CAPRINALDEHYDE | Fruit | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 7 | DIPENTENE | Fruit | | | | -- |
| 0 | UMBELLIPRENIN | Fruit | | | | -- |
| 31 | PSORALEN | Seed | | | | -- |
| 4 | THREONINE | Leaf | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------|---------------|---------|----------|--------|---|
| 16 | P-CYMENE | Essential Oil | | | | -- |
| 8 | GLUTAMIC-ACID | Fruit | | | | -- |
| 11 | ALPHA-PHELLANDRENE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 8 | CARYOPHYLLENE-OXIDE | Fruit | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | ETHYL-PENTADECANOATE | Essential Oil | | | | -- |
| 11 | ALPHA-PHELLANDRENE | Essential Oil | | | | -- |
| 0 | TRANS-OCIMENE | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 0 | 2-DODECANAL | Leaf | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 1 | SERINE | Fruit | | | | -- |
| 2 | ELEMOL | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | PROLINE | Fruit | | | | -- |
| 87 | RUTIN | Fruit | | | | -- |
| 60 | LIMONENE | Essential Oil | | | | -- |
| 3 | DIPHENYLAMINE | Plant | | | | Karawva, M. S., Khayyal, S. E., Farrag, N. M., Ayad, M. M. 1986. Screening of Diphenylamine as an Antihyperglycemic in Certain Edible Plant Organs. Egypt J. Pharm. Sci., 25(1,2,3): 21-25. |
| 0 | DELTA-SITOSTEROL | Fruit | | | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 0 | GERANIOL-ACETATE | Essential Oil | | | | -- |
| 14 | ARGININE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------------|---------------|---------|----------|--------|--|
| 2 | CYSTINE | Fruit | | | | -- |
| 0 | N-TRIACONTANE | Seed | | | | -- |
| 15 | METHIONINE | Leaf | | | | -- |
| 31 | CARYOPHYLLENE | Essential Oil | | | | -- |
| 1 | ETHYL-MYRISTATE | Essential Oil | | | | -- |
| 13 | GERANIAL | Fruit | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 3 | ALANINE | Fruit | | | | -- |
| 0 | 2-DODECANAL | Fruit | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 44 | SCOPOLETIN | Shoot | | | | -- |
| 0 | ACETIC-ACID-ESTER | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 22 | UMBELLIFERONE | Shoot | | | | -- |
| 2 | LEUCINE | Fruit | | | | -- |
| 47 | BETA-SITOSTEROL | Seed | | | | -- |
| 0 | DELTA-5,6-OCTADECENIC-ACID | Fruit | | | | -- |