

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Vitis vinifera*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|--|------------|---------|----------|--------|--|
| 30 | (+)-CATECHIN | Pericarp | | | | -- |
| 30 | (+)-CATECHIN | Leaf | | | | -- |
| 30 | (+)-CATECHIN | Seed | | | | -- |
| 7 | (+)-GALLOCATECHIN | Leaf | | | | -- |
| 38 | (-)-EPICATECHIN | Seed | | | | -- |
| 38 | (-)-EPICATECHIN | Leaf | | | | -- |
| 38 | (-)-EPICATECHIN | Pericarp | | | | -- |
| 38 | (-)-EPICATECHIN | Fruit | | | | -- |
| 0 | (-)-EPICATECHIN-3-GALLATE | Leaf | | | | -- |
| 21 | (-)-EPIGALLOCATECHIN | Leaf | | | | -- |
| 0 | (-)-GALLOCATECHIN | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | (DL)-GALLOCATECHIN | Leaf | | | | -- |
| 0 | 16-BETA-HYDROXY-3-OXOLEAN-1-12-DIEN-28-OIC-ACID | Pericarp | | | | -- |
| 0 | 16-BETA-HYDROXY-3-OXOLEAN-12-EN-28-OIC-ACID | Pericarp | | | | -- |
| 0 | 2,2,6-TRIMETHYL-8-(1-HYDRFOXY-ETHYL)-7-OXABICYCLO-(4,3,0)-NONA-4,9-DIENE | Fruit | | | | -- |
| 0 | 2,2,6-TRIMETHYL-8-(1-HYDROXY-ETHYL)-7-OXABICYCLO-(4,3,0)-NONA-4,9-DIENE | Fruit | | | | -- |
| 0 | 2,6-DIMETHYL-TRANS,TRANS-OCTA-2,6-DIEN-1,8-DIOL | Fruit | | | | -- |
| 0 | 2,6-DIMETHYL-TRANS-OCTA-2,7-DIEN-1,6-DIOL-6-O-ALPHA-D-ARABINOFURANOSYL-BETA-D-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|-------------|---------|----------|--------|--------------------|
| 0 | 2,6-DIMETHYL-TRANS-OCTA-2,7-DIEN-1,6-DIOL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | 2,6-DIMETHYL-TRANS-OCTA-2,7-DIEN-1,6-DIOL-BETA-D-GLUCOPYRANOSIDE | Plant | | | | -- |
| 0 | 2-METHOXY-3-ISOBUTYL-PYRAZINE | Stem | | | | -- |
| 0 | 2-PHENYLETHAN-1-OL | Leaf | | | | -- |
| 0 | 2-PHENYLETHAN-2-OL-6-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit | | | | -- |
| 0 | 2-PHENYLETHAN-2-OL-6-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | 2-PHENYLETHYL-AMINE | Fruit Juice | | | | -- |
| 0 | 2-TRANS-4-CIS-DECADIENAL | Seed | | | | -- |
| 0 | 2-TRANS-DECENAL | Seed | | | | -- |
| 0 | 2-TRANS-HEPTANAL | Seed | | | | -- |
| 0 | 24-METHYL-CYCLOARTENOL | Stem | | | | -- |
| 0 | 3,7-DIMETHYL-OCT-1-ENE-3,6,7-TRIOL | Fruit | | | | -- |
| 0 | 3,7-DIMETHYL-OCT-1-ENE-3,7-DIOL | Fruit | | | | -- |
| 0 | 3,7-DIMETHYL-OCTA-1,5,7-TRIEN-3-OL | Fruit | | | | -- |
| 0 | 3,7-DIMETHYL-OCTA-1,5-DIEN-3,7-DIOL | Fruit | | | | -- |
| 0 | 3,7-DIMETHYL-OCTA-1,6-DIEN-3,5-DIOL | Fruit | | | | -- |
| 0 | 3,7-DIMETHYL-OCTA-1,7-DIEN-3,6-DIOL | Fruit | | | | -- |
| 0 | 3-BETA-29-DIHYDROXY-OLEAN-12-EN-28-OIC-ACID | Pericarp | | | | -- |
| 0 | 3-BETA-HYDROXY-OLEAN-12-EN-28-ALDEHYDE | Pericarp | | | | -- |
| 0 | 3-HYDROXY-BETA-DAMASCONE | Fruit Juice | | | | -- |
| 0 | 3-OXO-ALPHA-IONOL | Fruit | | | | -- |
| 0 | 3-OXO-BETA-DAMASCONE | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------------------|------------------|---------|----------|----------------------|--|
| 0 | 3-OXO-OLEAN-12-EN-28-OIC-ACID | Pericarp | | | | -- |
| 0 | 30-NOR-LUPAN-3-BETA-OL-20-ONE | Root | | | | -- |
| 3 | 4-HYDROXYBENZALDEHYDE | Leaf | | | | -- |
| 0 | 6-9-DIHYDROXY-MEGASTIGM-7-EN-3-ONE | Fruit | | | | -- |
| 0 | 9-HYDROXY-MEGASTIGM-4,6,7-TRIEN-3-ONE | Fruit Juice | | | | -- |
| 0 | A-HEMICELLULOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 3 | ABSCISSIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 16 | ACETIC-ACID | Fruit | 1500.0 | 2000.0 | -0.06645757225743394 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 16 | ACETIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | ACUMINOSIDE | Fruit Juice | | | | -- |
| 3 | ALANINE | Fruit | 280.0 | 1440.0 | -0.8911912580591054 | USDA's Ag Handbook 8 and sequelae) |
| 0 | ALPHA-3-OXO-DAMASCONE | Fruit Juice | | | | -- |
| 0 | ALPHA-3-OXO-IONONE | Fruit Juice | | | | -- |
| 0 | ALPHA-AMYL-AMINE | Fruit Juice | | | | -- |
| 10 | ALPHA-AMYRIN | Stem | | | | -- |
| 7 | ALPHA-CAROTENE | Fruit | | | | -- |
| 0 | ALPHA-HYDROXY-CAROTENE | Fruit | | | | -- |
| 15 | ALPHA-LINOLENIC-ACID | Fruit | 390.0 | 2006.0 | -0.24402755757732797 | USDA's Ag Handbook 8 and sequelae) |
| 23 | ALPHA-TERPINEOL | Leaf Essent. Oil | | 108000.0 | 1.3174552815097405 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------|------------|---------|----------|----------------------|--|
| 32 | ALPHA-TOCOPHEROL | Fruit | 6.0 | 31.0 | -0.6444565233542005 | -- |
| 0 | ALPHA-VINIFERIN | Leaf | | 23400.0 | | -- |
| 5 | ALUMINUM | Stem | | 1030.0 | 0.044464754302322065 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 5 | ALUMINUM | Fruit | 1.0 | 154.0 | -0.1787194752035278 | -- |
| 1 | ANTHERAXANTHIN | Fruit | | | | -- |
| 10 | ANTHOCYANIDINS | Pericarp | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 30 | ANTHOCYANINS | Pericarp | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 30 | ANTHOCYANINS | Leaf | | 3000.0 | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 30 | ANTHOCYANINS | Fruit | | | | -- |
| 14 | ARGININE | Fruit | 490.0 | 2520.0 | -0.47739653189299114 | USDA's Ag Handbook 8 and sequelae) |
| 2 | ARSENIC | Fruit | 0.001 | 0.889 | 0.6023550350459049 | -- |
| 112 | ASCORBIC-ACID | Stem | | 310.0 | -1.1858763373403332 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 112 | ASCORBIC-ACID | Leaf | 3490.0 | 3870.0 | -0.08483341087930922 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 112 | ASCORBIC-ACID | Fruit | 99.0 | 600.0 | -0.24718280983607235 | USDA's Ag Handbook 8 and sequelae) |
| 0 | ASCORBIC-ACID-OXIDASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | ASH | Stem | | 88000.0 | 0.9172643481683129 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|-------------|---------|----------|----------------------|--|
| 0 | ASH | Fruit | 4290.0 | 77000.0 | 0.526613994855476 | -- |
| 3 | ASPARTIC-ACID | Fruit | 810.0 | 4167.0 | -0.78714800256649 | USDA's Ag Handbook 8 and sequelae) |
| 0 | ASRAGALIN | Flower | | | | -- |
| 1 | ASTILBIN | Pericarp | | | | -- |
| 7 | ASTRAGALIN | Leaf | | | | -- |
| 0 | B-HEMICELLULOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | BARIUM | Fruit | 0.66 | 15.4 | -0.5127937102474286 | -- |
| 20 | BENZOIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | BENZYL-6-O-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 9 | BENZYL-ALCOHOL | Leaf | | | | -- |
| 0 | BENZYL-ALCOHOL-6-O-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Leaf | | | | -- |
| 0 | BENZYL-ALCOHOL-BETA-D-GLUCOSIDE | Leaf | | | | -- |
| 0 | BENZYL-ALCOHOL-BETA-D-RUTINOSIDE | Leaf | | | | -- |
| 0 | BETA-3-OXO-DAMASCONE | Fruit Juice | | | | -- |
| 9 | BETA-AMYRIN | Stem | | | | -- |
| 9 | BETA-AMYRIN | Leaf | | | | -- |
| 53 | BETA-CAROTENE | Stem | | 43.0 | -0.5551411085990826 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 53 | BETA-CAROTENE | Fruit | 0.5 | 2.1 | -0.14674136696680995 | -- |
| 13 | BETA-IONONE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|-------------|---------|----------|----------------------|--|
| 0 | BETA-PHENYLETHANOL-6-BETA-D-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit Juice | | | | -- |
| 0 | BETA-PHENYLETHANOL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | BETA-PHENYLETHANOL-BETA-D-RUTINOSIDE | Fruit Juice | | | | -- |
| 47 | BETA-SITOSTEROL | Seed | | | | -- |
| 47 | BETA-SITOSTEROL | Fruit | 30.0 | 150.0 | -0.5971588891273873 | -- |
| 14 | BETAINE | Fruit Juice | | | | -- |
| 22 | BETULINIC-ACID | Root | | | | -- |
| 4 | BIOTIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | BORON | Fruit | 1.0 | 50.0 | 0.20278384568897864 | -- |
| 0 | BREVILAGIN-I | Leaf | | 533.3 | | -- |
| 0 | BROMINE | Fruit | | 1.0 | -0.42563543443835 | USDA's Ag Handbook 8 and sequelae) |
| 3 | CADMIUM | Fruit | 0.001 | 0.231 | 0.03526712239341311 | -- |
| 102 | CAFFEIC-ACID | Root | | | | -- |
| 102 | CAFFEIC-ACID | Leaf | | | | -- |
| 102 | CAFFEIC-ACID | Fruit | | | | -- |
| 0 | CAFFEOYL-TARTRATE | Fruit | | | | Jim Duke's personal files. |
| 3 | CAFFEOYLTARTARIC-ACID | Fruit | | | | Jim Duke's personal files. |
| 0 | CAFFEYLTARTARIC-ACID | Fruit | | | | -- |
| 3 | CAFTARIC-ACID | Fruit | | | | -- |
| 28 | CALCIUM | Stem | | 17700.0 | -0.11330590567075993 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 28 | CALCIUM | Fruit | 92.0 | 4774.0 | 0.2117719310786729 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------|------------|----------|----------|----------------------|--|
| 0 | CALCIUM-PECTATE | Leaf | | 69000.0 | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 2 | CAMPESTEROL | Seed | | | | -- |
| 2 | CAMPESTEROL | Plant | | | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 0 | CARBOHYDRATES | Fruit | 177700.0 | 914095.0 | 0.7016650651905534 | USDA's Ag Handbook 8 and sequelae) |
| 1 | CATALASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 43 | CATECHIN | Seed | | | | -- |
| 0 | CATECHOL-OXIDASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 1 | CEPHALIN | Seed | | | | -- |
| 77 | CHLOROGENIC-ACID | Fruit | | 1400.0 | 0.11655949578196001 | -- |
| 77 | CHLOROGENIC-ACID | Root | | | | -- |
| 77 | CHLOROGENIC-ACID | Leaf | | | | -- |
| 77 | CHLOROGENIC-ACID | Shoot | | | | -- |
| 1 | CHOLESTEROL | Fruit | | | | -- |
| 24 | CHROMIUM | Stem | | 9.0 | 0.4664861453042604 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 24 | CHROMIUM | Fruit | 0.005 | 0.385 | -0.45355683651553846 | -- |
| 60 | CINNAMALDEHYDE | Fruit | | | | -- |
| 18 | CINNAMIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | CIS-CAFFEIC-ACID | Fruit | | | | Jim Duke's personal files. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------|-------------|---------|----------|----------------------|--|
| 0 | CIS-CAFTARIC-ACID | Fruit Juice | | | | -- |
| 0 | CIS-COUTARIC-ACID | Fruit Juice | | | | -- |
| 0 | CIS-PICEID | Fruit | | | | -- |
| 3 | CIS-RESVERATROL | Fruit | | | | -- |
| 23 | CITRIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 23 | CITRIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 15 | CITRONELLOL | Leaf | | | | -- |
| 1 | CITROSTADIENOL | Stem | | | | -- |
| 2 | COBALT | Stem | | 33.0 | 0.7427055671504605 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 2 | COBALT | Fruit | 0.005 | 0.22 | -0.5084821806978201 | -- |
| 5 | CONIFERYL-ALDEHYDE | Fruit | | | | -- |
| 12 | COPPER | Fruit | 0.7 | 11.6 | -0.09487047254583593 | -- |
| 57 | COUMARIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | CRYPTOCHLOROGENIC-ACID | Fruit | | | | Jim Duke's personal files. |
| 2 | CRYPTOXANTHIN | Fruit | | | | -- |
| 7 | CYANIDIN | Pericarp | | | | -- |
| 7 | CYANIDIN | Fruit | | | | -- |
| 0 | CYANIDIN-3-GALACTOSIDE | Fruit | | | | -- |
| 0 | CYANIDIN-3-GLUCOSIDE | Fruit | | | | 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 |
|------------------|--|----------------|---------|----------|---------------------|--|
| 19 | CYANIDIN-3-O-GLUCOSIDE | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 19 | CYANIDIN-3-O-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | CYANIN | Tissue Culture | | | | -- |
| 7 | CYCLOARTENOL | Stem | | | | -- |
| 2 | CYSTINE | Fruit | 110.0 | 566.0 | -0.4853602292193013 | USDA's Ag Handbook 8 and sequelae) |
| 4 | D-CATECHIN | Leaf | | | | -- |
| 4 | D-CATECHIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DAMASCENONE | Fruit Juice | 0.013 | 0.085 | | -- |
| 0 | DEHYDROHEXAHYDROXY DIPHENIC-ACID | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 0 | DEHYDROVOMIFOLIOL | Fruit | | | | -- |
| 9 | DELPHINIDIN | Plant | | | | -- |
| 0 | DELPHINIDIN-3,5-DIGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DELPHINIDIN-3-(6-P-COUMAROYLGLUCOSIDE) | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DELPHINIDIN-3-(P-COUMAROYLGLUCOSIDE)-5-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DELPHINIDIN-3-0-BETA-D-GLUCOSIDE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|---------------------|---------|----------|--------|--|
| 0 | DELPHINIDIN-3-CAFFEYOYLGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | DELPHINIDIN-3-O-BETA-D-GLUCOSIDE | Pericarp | | | | -- |
| 2 | DIETHYL-AMINE | Fruit Juice | | | | -- |
| 0 | DIHYDROFURAN-I | Fruit Juice | | | | -- |
| 0 | DIHYDROKAEMPFEROL-3-RHAMNOSIDE | Pericarp | | | | -- |
| 0 | DIHYDROPHASEIC-ACID-4'-BETA-D-GLUCOSIDE | Fruit | | | | -- |
| 0 | DIHYDROQUERCETIN-3-RHAMNOSIDE | Pericarp | | | | -- |
| 1 | DIHYDROZEATIN | Resin, Exudate, Sap | | | | -- |
| 2 | DIMETHYL-AMINE | Fruit Juice | | | | -- |
| 0 | ELEMOL-ACETATE | Leaf Essent. Oil | | 130200.0 | | -- |
| 51 | ELLAGIC-ACID | Fruit | | | | -- |
| 0 | ENGELETIN | Pericarp | | | | -- |
| 0 | ENOMELANIN | Fruit | | | | -- |
| 0 | ENOMELANIN | Plant | | | | -- |
| 0 | ENOTANNIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-6)-EPI-CATECHIN-(4-BETA-8)-CATECHIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-6)-EPI-CATECHIN-(4-BETA-8)-EPI-CATECHIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-8)-EPI-CATECHIN-(4-BETA-6)-CATECHIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-8)-EPI-CATECHIN-(4-BETA-6)-EPI-CATECHIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-8)-EPI-CATECHIN-(4-BETA-8)-CATECHIN | Seed | | | | -- |
| 0 | EPI-CATECHIN-(4-BETA-8)-EPI-CATECHIN-3-O-GALLATE-(4-BETA-8)-CATECHIN | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------|-------------|---------|----------|----------------------|--|
| 40 | EPICATECHIN | Fruit | | | | -- |
| 40 | EPICATECHIN | Seed | | | | -- |
| 0 | EPICATECHIN-3-GALLATE | Seed | | | | -- |
| 0 | EPICATECHIN-3-GALLATE | Fruit | | | | -- |
| 1 | EPICATECHIN-3-O-GALLATE | Seed | | | | -- |
| 1 | EPICATECHIN-3-O-GALLATE | Fruit | | | | -- |
| 4 | EPSILON-VINIFERIN | Leaf | | 30900.0 | | -- |
| 5 | ERGOSTEROL | Fruit | | | | -- |
| 2 | ERUCIC-ACID | Seed | | | | -- |
| 0 | ETHYL-AMINE | Fruit Juice | | | | -- |
| 0 | FAT | Fruit | 5010.0 | 33898.0 | -0.3823418924511751 | USDA's Ag Handbook 8 and sequelae) |
| 0 | FAT | Seed | 60000.0 | 200000.0 | -0.34441983215421706 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | FERTARIC-ACID | Fruit | | | | -- |
| 61 | FERULIC-ACID | Fruit | | | | -- |
| 0 | FERULOYL-SUCCINIC-ACID | Plant | | | | -- |
| 15 | FIBER | Fruit | 4210.0 | 24640.0 | -1.104411552185134 | USDA's Ag Handbook 8 and sequelae) |
| 0 | FLAVONOIDS | Leaf | 40000.0 | 50000.0 | 1.097856271722259 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | FLAVONOL-GLUCOSIDES | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 0 | FLUORINE | Fruit | 0.1 | 0.6 | -0.744462097809404 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| 15 | FOLACIN | Fruit | 0.03 | 0.23 | -0.7424982313124213 | USDA's Ag Handbook 8 and sequelae) |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------|------------|---------|----------|--------|--|
| 13 | FORMIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | FR | Plant | | | | -- |
| 8 | FRUCTOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 7 | FUMARIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 22 | GABA | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | GALACTOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | GALACTURONIC-ACID | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 62 | GALLIC-ACID | Leaf | | | | -- |
| 62 | GALLIC-ACID | Seed | | | | -- |
| 62 | GALLIC-ACID | Root | | | | -- |
| 62 | GALLIC-ACID | Fruit | | | | -- |
| 0 | GALLOCATECHIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | GALLOCATECHIN | Leaf | | | | -- |
| 0 | GALLOCATECHIN | Hr | | | | -- |
| 0 | GALLOYL-PROCYANIDIN | Leaf | | | | -- |
| 2 | GAMMA-CAROTENE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|------------------|---------|----------|----------------------|--|
| 8 | GENTISIC-ACID | Leaf | | | | -- |
| 8 | GENTISIC-ACID | Hull Husk | | | | -- |
| 35 | GERANIOL | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 35 | GERANIOL | Leaf Essent. Oil | | 145200.0 | 0.2933293044777782 | -- |
| 0 | GERANIOL-6-O-ALPHA-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | GERANIOL-6-O-ALPHA-L-RHAMNOPYRANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | GERANIOL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | GERMANICOL | Stem | | | | -- |
| 7 | GLUCOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | GLUCOSE-6-PHOSPHATE-DEHYDROGENASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 8 | GLUTAMIC-ACID | Fruit | 1380.0 | 7099.0 | -0.47772044794013085 | USDA's Ag Handbook 8 and sequelae) |
| 3 | GLYCERIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 12 | GLYCINE | Fruit | 200.0 | 1029.0 | -0.9963335342523983 | USDA's Ag Handbook 8 and sequelae) |
| 4 | GLYCOLIC-ACID | Leaf | | | | -- |
| 0 | GRASSHOPPER-KETONE | Fruit Juice | | | | -- |
| 0 | HENTRIACONTANE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------------|---------------|---------|----------|----------------------|--|
| 0 | HEPTACOSAN-1-OL | Root | | | | -- |
| 0 | HEXOKINASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | HIRSUTRIN | Leaf | | | | -- |
| 7 | HISTIDINE | Fruit | 240.0 | 1235.0 | -0.33486171560742833 | USDA's Ag Handbook 8 and sequelae) |
| 0 | HYDROXY-CITRONELLOL | Essential Oil | | | | -- |
| 30 | HYPEROSIDE | Leaf | | | | -- |
| 8 | INOSITOL | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | IRON | Stem | | 900.0 | 0.1561374515042096 | -- |
| 6 | IRON | Fruit | 1.5 | 154.0 | 0.08338831118036903 | -- |
| 0 | ISOAMYL-AMINE | Fruit Juice | | | | -- |
| 0 | ISOBUTYL-AMINE | Fruit Juice | | | | -- |
| 4 | ISOCHLOROGENIC-ACID | Fruit | | 200.0 | -1.0 | -- |
| 3 | ISOLEUCINE | Fruit | 50.0 | 257.0 | -1.0154078969360296 | USDA's Ag Handbook 8 and sequelae) |
| 22 | ISOQUERCITRIN | Leaf | | | | -- |
| 0 | ISOVITILAGIN | Leaf | | 163.0 | | -- |
| 0 | JASMONIC-ACID | Bud | | | | -- |
| 0 | JU | Plant | | | | -- |
| 75 | KAEMPFEROL | Leaf | | | | -- |
| 75 | KAEMPFEROL | Fruit | | 2.0 | -0.5794291374991353 | -- |
| 0 | KAEMPFEROL-3-MONOGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | KAEMPFEROL-3-O-GLUCOSIDE | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|------------------|---------|----------|---------------------|--|
| 8 | LACTIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | LEAD | Fruit | 0.02 | 9.0 | 0.04188042425593692 | -- |
| 20 | LECITHIN | Seed | | | | -- |
| 2 | LEUCINE | Fruit | 140.0 | 720.0 | -0.9313808451068529 | USDA's Ag Handbook 8 and sequelae) |
| 0 | LEUCOANTHOCYANIDOLE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | LEUCOCYANIDIN | Plant | | | | -- |
| 60 | LIMONENE | Plant | | | | Stitt, Paul. Why George should eat broccoli. |
| 0 | LINALOL | Fruit | | | | -- |
| 0 | LINALOL | Leaf Essent. Oil | | 273000.0 | 1.0 | -- |
| 0 | LINALOL-6-O-ALPHA-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | LINALOL-6-O-ALPHA-L-RHAMNOPYRANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | LINALOL-6-O-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | LINALOL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 53 | LINALOOL | Leaf Essent. Oil | | 273000.0 | 1.032803610048003 | -- |
| 53 | LINALOOL | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | LINALOOL-6-O-ALPHA-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit Juice | | | | -- |
| 0 | LINALOOL-6-O-ALPHA-L-RHAMNOPYRANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--|-------------|---------|----------|----------------------|--|
| 0 | LINALOOL-6-O-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | LINALOOL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 27 | LINOLEIC-ACID | Seed | 33000.0 | 110000.0 | 0.02465730498455117 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 27 | LINOLEIC-ACID | Fruit | 1300.0 | 6687.0 | -0.26105644413514206 | USDA's Ag Handbook 8 and sequelae) |
| 27 | LINOLEIC-ACID | Seed Oil | | | | -- |
| 0 | LINOLEIC-ACID-ETHYL-ESTER | Seed | | | | -- |
| 0 | LINOLENIC-ACID | Seed Oil | | | | -- |
| 11 | LITHIUM | Fruit | 0.088 | 0.308 | -0.672367806726868 | -- |
| 21 | LUPEOL | Leaf | | | | -- |
| 21 | LUPEOL | Root | | | | -- |
| 21 | LUPEOL | Stem | | | | -- |
| 15 | LUTEIN | Fruit | 0.7 | 7.0 | -0.22996142536614406 | -- |
| 0 | LUTEIN-5,6-EPOXIDE | Fruit | | | | -- |
| 0 | LUTEIN-5-8-EPOXIDE | Fruit | | | | -- |
| 78 | LUTEOLIN | Leaf | | | | -- |
| 0 | LUTEOXANTHIN | Fruit | | | | -- |
| 16 | LYCOPENE | Fruit | | | | -- |
| 4 | LYSINE | Fruit | 150.0 | 772.0 | -0.8656782702911159 | USDA's Ag Handbook 8 and sequelae) |
| 65 | MAGNESIUM | Stem | | 4360.0 | -0.17001174539444178 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 65 | MAGNESIUM | Fruit | 58.0 | 2310.0 | 0.08347231535472893 | -- |
| 15 | MALIC-ACID | Plant | | | | -- |
| 15 | MALIC-ACID | Fruit | 1500.0 | 2000.0 | -0.8215787018847368 | 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 |
|------------------|---|----------------|---------|----------|-----------------------|--|
| 6 | MALVIDIN | Fruit | | | | -- |
| 0 | MALVIDIN-3-(6-P-COUMAROYLGLUCOSIDE)-5-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MALVIDIN-3-(P-COUMAROYLGLUCOSIDE) | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MALVIDIN-3-CAFFEYOYLGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MALVIDIN-3-CHLOROGENIC-ACID-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MALVIDIN-3-GLUCOSIDE | Fruit | | | | -- |
| 0 | MALVIDIN-3-O-BETA-D-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MALVIDIN-3-O-BETA-D-GLUCOSIDE | Pericarp | | | | -- |
| 0 | MALVIDIN-3-O-BETA-D-GLUCOSIDE | Exocarp | | | | -- |
| 0 | MALVIDIN-MONOGLUCOSIDE | Tissue Culture | | | | -- |
| 14 | MANGANESE | Stem | | 986.0 | -0.3806285370071949 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 14 | MANGANESE | Fruit | 0.5 | 54.0 | -0.047468534240292154 | -- |
| 0 | MEGASTIGM-5-EN-7-YNE-3,9-DIOL | Fruit Juice | | | | -- |
| 0 | MELIBIOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 1 | MERCURY | Fruit | 0.0 | 0.011 | -0.3194372671514748 | -- |
| 15 | METHIONINE | Fruit | 220.0 | 1132.0 | 0.21362860728552646 | USDA's Ag Handbook 8 and sequelae) |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------------|---------------------|---------|----------|----------------------|--|
| 1 | METHYL-AMINE | Fruit Juice | | | | -- |
| 2 | MOLYBDENUM | Fruit | 0.1 | 0.539 | -0.37721248118680145 | -- |
| 0 | MONO-P-COUMARYL-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MONO-P-COUMARYL-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MONOCAFFEIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MONOCAFFEIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MONOCAFFEYOILTARTARIC-ACID | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 0 | MONOFERULYLSUCCINIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 13 | MUFA | Fruit | 230.0 | 1183.0 | -0.23678373998760255 | USDA's Ag Handbook 8 and sequelae) |
| 0 | MUTATOXANTHIN | Fruit | | | | -- |
| 34 | MYRICETIN | Fruit | 1.0 | 9.3 | 0.39776676515655446 | -- |
| 0 | MYRICETIN-3-MONOGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | MYRICETIN-3-O-BETA-D-GLUCOSIDE | Leaf | | | | -- |
| 6 | MYRISTIC-ACID | Fruit | 50.0 | 257.0 | -0.25701951929746253 | USDA's Ag Handbook 8 and sequelae) |
| 0 | N(6)-ISO-PENTENYL-ADENINE | Resin, Exudate, Sap | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|-------------|---------|----------|---------------------|--|
| 0 | N-PROPYL-AMINE | Fruit Juice | | | | -- |
| 2 | NEO-CHLOROGENIC-ACID | Fruit | | 20.0 | | -- |
| 2 | NEOXANTHIN | Fruit | | | | -- |
| 10 | NEROL | Leaf | | | | -- |
| 0 | NEROL-6-O-ALPHA-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | NEROL-6-O-ALPHA-L-RHAMNOPYRANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit | | | | -- |
| 0 | NEROL-6-O-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | NEROL-6-O-ALPHA-L-ARABINOFURANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit Juice | | | | -- |
| 0 | NEROL-6-O-ALPHA-L-RHAMNOPYRANOSYL-BETA-D-GLUCOPYRANOSIDE | Fruit Juice | | | | -- |
| 0 | NEROL-6-O-BETA-D-APIOFURANOSYL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 0 | NEROL-BETA-D-GLUCOSIDE | Fruit Juice | | | | -- |
| 39 | NIACIN | Stem | | | | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 39 | NIACIN | Fruit | 3.0 | 15.4 | -0.605557161390472 | USDA's Ag Handbook 8 and sequelae) |
| 3 | NICKEL | Fruit | 0.01 | 0.77 | -0.5452883169082009 | -- |
| 0 | NITROGEN | Fruit | 1100.0 | 7220.0 | -0.519032430701182 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| 2 | NONACOSANE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | NONANAL | Seed | | | | -- |
| 0 | NUCLEOTIDE-PYROPHOSPHATASE | Root | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------|------------|---------|----------|---------------------|--|
| 0 | O-HYDROXYBENZOIC-ACID | Hull Husk | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | OBTUSIFOLIOL | Stem | | | | -- |
| 0 | OCTAN-1-OL | Stem | | | | -- |
| 0 | OENIN | Petiole | | | | -- |
| 0 | OENIN | Pericarp | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 64 | OLEANOLIC-ACID | Leaf Wax | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 64 | OLEANOLIC-ACID | Pericarp | | | | -- |
| 1 | OLEANOLIC-ACID-METHYL-ESTER | Leaf | | | | -- |
| 0 | OLEANOLIC-ALDEHYDE | Stem | | | | -- |
| 18 | OLEIC-ACID | Seed Oil | | | | -- |
| 18 | OLEIC-ACID | Seed | 22200.0 | 74000.0 | -0.3707767625520139 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 18 | OLEIC-ACID | Plant | 230.0 | 1183.0 | -0.7096693225803793 | -- |
| 25 | OPCS | Leaf | 170.0 | 640.0 | | -- |
| 9 | OXALIC-ACID | Fruit | | 34.0 | -0.3044741963579158 | -- |
| 25 | P-COUMARIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | P-COUMAROYL-CIS-TARTRATE | Fruit | | | | -- |
| 0 | P-COUMAROYL-TRANS-TARTRATE | Fruit | | | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Hull Husk | | | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Leaf | | | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Root | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------------------|------------|---------|----------|----------------------|--|
| 0 | PAEONIDIN | Fruit | | | | -- |
| 0 | PAEONIDIN-3-(6-P-COUMAROYLGLUCOSIDE) | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PAEONIDIN-3-5,-DIGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PAEONIDIN-3-CAFFEYOYLGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PAEONIDIN-3-O-BETA-D-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PAEONIDIN-3-O-GLUCOSIDE | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 13 | PALMITIC-ACID | Seed Oil | | | | -- |
| 13 | PALMITIC-ACID | Seed | 3300.0 | 11000.0 | -0.472635357644977 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 13 | PALMITIC-ACID | Fruit | 1620.0 | 8333.0 | -0.23580842316871725 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PALMITIC-ACID-BUTYL-ESTER | Seed | | | | -- |
| 11 | PANTOTHENIC-ACID | Fruit | 0.2 | 1.3 | -1.0718946042703752 | USDA's Ag Handbook 8 and sequelae) |
| 24 | PECTIN | Fruit | 300.0 | 3900.0 | -0.5839446324584245 | -- |
| 24 | PECTIN | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 0 | PECTIN-METHYL-ESTERASE | Fruit | | | | 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 |
|------------------|--------------------------------------|----------------|---------|----------|--------|--|
| 7 | PELARGONIDIN | Fruit | | | | -- |
| 3 | PEONIDIN | Pericarp | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 1 | PEONIDIN-3-O-BETA-D-GLUCOSIDE | Exocarp | | | | -- |
| 1 | PEONIDIN-3-O-BETA-D-GLUCOSIDE | Tissue Culture | | | | -- |
| 1 | PEONIDIN-3-O-BETA-D-GLUCOSIDE | Pericarp | | | | -- |
| 0 | PEONIDIN-3-P-COUMAROYL-GLUCOSIDE | Tissue Culture | | | | -- |
| 0 | PEROXIDASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 3 | PETUNIDIN | Pericarp | | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | PETUNIDIN-3,5-DIGLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PETUNIDIN-3-(6-P-COUMAROYLGLUCOSIDE) | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PETUNIDIN-3-CAFFEOYLGLUCOSIDE | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PETUNIDIN-3-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | PETUNIDIN-3-O-BETA-D-GLUCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | PETUNIDIN-3-O-BETA-D-GLUCOSIDE | Pericarp | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------------|------------|---------|----------|----------------------|--|
| 1 | PETUNIDIN-3-O-BETA-D-GLUCOSIDE | Exocarp | | | | -- |
| 7 | PHENYLALANINE | Fruit | 140.0 | 720.0 | -0.9037071292147459 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PHENYLPROPANOIC-ACIDS | Leaf | | | | Bruneton, J. 1999. Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Ed. Lavoisier Publishing, Paris. 1119 pp. |
| 0 | PHOSPHATIDYL-INOSITOL | Seed | | | | -- |
| 0 | PHOSPHATIDYL-SERINE | Seed | | | | -- |
| 0 | PHOSPHODIESTERASE | Root | | | | -- |
| 4 | PHOSPHORUS | Stem | | 1710.0 | -0.5945154579676041 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 4 | PHOSPHORUS | Fruit | 117.0 | 1848.0 | -0.41551440624393526 | -- |
| 5 | PHYLLOQUINONE | Fruit | 0.04 | 0.09 | -0.21889420119445582 | -- |
| 0 | PHYTOENE | Fruit | | | | -- |
| 0 | PHYTOFLUENE | Fruit | | | | -- |
| 2 | PHYTOSTEROLS | Fruit | 40.0 | 206.0 | -0.9525233048912787 | USDA's Ag Handbook 8 and sequelae) |
| 7 | PICEID | Fruit | | | | -- |
| 0 | POLYPHENOL-OXIDASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | POPULNIN | Leaf | | | | -- |
| 14 | POTASSIUM | Stem | | 20100.0 | 0.5104500914352443 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 14 | POTASSIUM | Fruit | 1784.0 | 24640.0 | 0.5948517865626541 | -- |
| 1 | POTASSIUM-BITARTRATE | Leaf | | | | -- |
| 0 | PROANTHOCYANIDIN-B1 | Leaf | 88.0 | 333.0 | | -- |
| 0 | PROANTHOCYANIDIN-B1-3-O-GALLATE | Leaf | 0.0 | 6.0 | | -- |
| 0 | PROANTHOCYANIDIN-B2 | Leaf | 17.0 | 94.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|--------|--------------------|
| 0 | PROANTHOCYANIDIN-B2-3'-O-GALLATE | Leaf | 3.0 | 25.0 | | -- |
| 0 | PROANTHOCYANIDIN-B2-3,3'-O-GALLATE | Leaf | 0.0 | 4.0 | | -- |
| 0 | PROANTHOCYANIDIN-B3 | Leaf | 7.0 | 37.0 | | -- |
| 0 | PROANTHOCYANIDIN-B4 | Leaf | 7.0 | 37.0 | | -- |
| 0 | PROANTHOCYANIDIN-POLYMER | Fruit | | | | -- |
| 1 | PROCYANIDIN-B-1 | Seed | | | | -- |
| 1 | PROCYANIDIN-B-1 | Pericarp | | | | -- |
| 1 | PROCYANIDIN-B-1 | Leaf | | | | -- |
| 1 | PROCYANIDIN-B-2 | Pericarp | | | | -- |
| 1 | PROCYANIDIN-B-2 | Leaf | | | | -- |
| 1 | PROCYANIDIN-B-2 | Seed | | | | -- |
| 0 | PROCYANIDIN-B-2-3'-GALLATE | Leaf | | | | -- |
| 3 | PROCYANIDIN-B-2-3'-O-GALLATE | Fruit | | | | -- |
| 3 | PROCYANIDIN-B-2-3'-O-GALLATE | Seed | | | | -- |
| 3 | PROCYANIDIN-B-2-3,3'-DI-O-GALLATE | Seed | | | | -- |
| 2 | PROCYANIDIN-B-3 | Pericarp | | | | -- |
| 2 | PROCYANIDIN-B-3 | Leaf | | | | -- |
| 2 | PROCYANIDIN-B-3 | Seed | | | | -- |
| 4 | PROCYANIDIN-B-4 | Pericarp | | | | -- |
| 4 | PROCYANIDIN-B-4 | Leaf | | | | -- |
| 4 | PROCYANIDIN-B-4 | Seed | | | | -- |
| 0 | PROCYANIDIN-B-4-3'-GALLATE | Seed | | | | -- |
| 0 | PROCYANIDIN-B-5 | Seed | | | | -- |
| 1 | PROCYANIDIN-B-6 | Seed | | | | -- |
| 0 | PROCYANIDIN-B-7 | Seed | | | | -- |
| 0 | PROCYANIDIN-B-8 | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------|-------------|---------|----------|----------------------|--|
| 0 | PROCYANIDIN-B1,3'-O-GALLATE | Seed | | | | -- |
| 0 | PROCYANIDIN-C-1 | Leaf | | | | -- |
| 0 | PROCYANIDIN-C-1 | Seed | | | | -- |
| 1 | PROCYANIDIN-C-2 | Seed | | | | -- |
| 0 | PROCYANIDIN-G | Pericarp | | | | -- |
| 27 | PROCYANIDINS | Fruit | | | | -- |
| 0 | PROLINE | Fruit | 220.0 | 1132.0 | -0.7893812127923229 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PROTEIN | Seed | 70000.0 | 100000.0 | -1.190185310672251 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | PROTEIN | Fruit | 6350.0 | 35236.0 | -0.9955216411354211 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PROTEIN | Stem | | 89000.0 | -0.7071067811865476 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 1 | PROTocatechualdehyde | Leaf | | | | -- |
| 1 | PROTocatechualdehyde | Fruit | | | | -- |
| 43 | PROTocatechuic-acid | Leaf | | | | -- |
| 0 | PROTOpectinase | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 19 | PTEROSTILBENE | Leaf | | | | -- |
| 4 | PUFA | Fruit | 1690.0 | 8693.0 | -0.21721248210881625 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PYROPHOSPHATASE-NUCLEOTIDE | Root | | | | -- |
| 1 | PYRROLIDINE | Fruit Juice | | | | -- |
| 176 | QUERCETIN | Fruit | 0.5 | 16.0 | -0.7176094612628865 | -- |
| 176 | QUERCETIN | Leaf | | | | -- |
| 0 | QUERCETIN-3-GLUCURONIDE | Leaf | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------|-------------|---------|----------|----------------------|--|
| 0 | QUERCETIN-3-O-GLUCOSIDE | Plant | | | | -- |
| 0 | QUERCETIN-GLUCURONOSIDE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 6 | QUERCIMERITRIN | Leaf | | | | -- |
| 44 | QUERCITRIN | Leaf | | | | -- |
| 44 | QUERCITRIN | Fruit | | | | -- |
| 1 | QUINIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | QUINIC-ACID | Fruit | | | | Jim Duke's personal files. |
| 1 | QUINIC-ACID | Root | | | | -- |
| 1 | RAFFINOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 68 | RESVERATROL | Shoot | | | | -- |
| 68 | RESVERATROL | Fruit Juice | 0.06 | 3.3 | | Creasy, L. L., Creasy, M. T. 1998. Grape Chemistry and the Significance of Resveratrol: An Overview. Pharm. Biol., 36: 8-13. |
| 68 | RESVERATROL | Fruit | | 13.3 | | -- |
| 68 | RESVERATROL | Leaf | 375.0 | 90400.0 | | -- |
| 15 | RIBOFLAVIN | Stem | | 6.9 | -0.48723714845751276 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 15 | RIBOFLAVIN | Plant | 0.5 | 3.2 | -0.5722447215531815 | -- |
| 0 | ROSEOSIDE | Fruit | | | | -- |
| 0 | RUBIDIUM | Fruit | 0.4 | 5.5 | -1.0186549557194133 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| 87 | RUTIN | Leaf | | | | -- |
| 7 | SALICYLATES | Fruit | 2.0 | 80.0 | -0.1073449080720807 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------|------------|---------|----------|----------------------|--|
| 34 | SALICYLIC-ACID | Root | | | | -- |
| 34 | SALICYLIC-ACID | Leaf | | | | -- |
| 60 | SELENIUM | Stem | | 18.0 | 1.924519185907645 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 60 | SELENIUM | Fruit | 0.0 | 0.012 | -0.3832115202693911 | -- |
| 1 | SERINE | Fruit | 320.0 | 1646.0 | -0.7050443362120865 | USDA's Ag Handbook 8 and sequelae) |
| 0 | SFA | Fruit | 1890.0 | 9722.0 | -0.16575412818647417 | USDA's Ag Handbook 8 and sequelae) |
| 14 | SHIKIMIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | SHIKIMIC-ACID | Root | | | | -- |
| 4 | SILICON | Stem | | 365.0 | -0.5461064151412073 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 4 | SILICON | Fruit | 1.0 | 28.0 | -0.5174716882721563 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| 3 | SILVER | Fruit | 0.022 | 0.077 | -0.5251184109620559 | -- |
| 9 | SINAPIC-ACID | Root | | | | -- |
| 1 | SODIUM | Stem | | 156.0 | -0.5194124752401025 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 1 | SODIUM | Fruit | 2.0 | 454.0 | -0.1408984763342879 | -- |
| 10 | SQUALENE | Seed Oil | | | | -- |
| 10 | SQUALENE | Seed | | | | -- |
| 1 | STACHYOSE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 8 | STEARIC-ACID | Seed Oil | | | | -- |
| 8 | STEARIC-ACID | Seed | 1440.0 | 4800.0 | -0.4612463396361093 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|----------------------|--|
| 0 | STEARIC-ACID-BUTYL-ESTER | Seed | | | | -- |
| 12 | STIGMASTEROL | Seed | | | | -- |
| 12 | STIGMASTEROL | Plant | | | | -- |
| 12 | STIGMASTEROL | Root | | | | -- |
| 0 | STRONTIUM | Fruit | 1.54 | 38.5 | -0.4672073193158673 | -- |
| 0 | SUCCINDEHYDROGENASE | Fruit | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 7 | SUCCINIC-ACID | Fruit | | | | -- |
| 0 | SUGAR | Fruit | 30000.0 | 189000.0 | 0.005740941518907065 | -- |
| 14 | SULFUR | Fruit | 7.0 | 888.0 | -0.3664842839566224 | -- |
| 4 | SYRINGALDEHYDE | Leaf | | | | -- |
| 6 | SYRINGIC-ACID | Hull Husk | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | SYRINGIC-ACID | Leaf | | | | -- |
| 35 | TANNIN | Seed | | | | -- |
| 2 | TARAXASTEROL | Stem | | | | -- |
| 2 | TARAXASTEROL | Leaf | | | | -- |
| 2 | TARAXEROL | Leaf | | | | -- |
| 2 | TARAXEROL | Stem | | | | -- |
| 6 | TARTARIC-ACID | Fruit | 15.0 | 20.0 | -0.657218517797534 | -- |
| 6 | TARTARIC-ACID | Leaf | | | | -- |
| 0 | TARTARIC-ACID-CAFFEOYL-ESTER | Fruit | 15.0 | 20.0 | | -- |
| 31 | THIAMIN | Stem | | 11.0 | 0.36791183185934545 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 31 | THIAMIN | Fruit | 0.8 | 4.9 | -0.05538912844659949 | USDA's Ag Handbook 8 and sequelae) |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|-------------|---------|----------|---------------------|--|
| 4 | THREONINE | Fruit | 180.0 | 926.0 | -0.8695024361765752 | USDA's Ag Handbook 8 and sequelae) |
| 4 | TIN | Stem | | 12.0 | 0.7071067811865475 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | TITANIUM | Fruit | 0.11 | 7.7 | -0.5795941269861224 | -- |
| 0 | TRANS-CAFFEIC-ACID | Fruit | | | | Jim Duke's personal files. |
| 0 | TRANS-CAFTARIC-ACID | Fruit Juice | | | | -- |
| 0 | TRANS-COUTARIC-ACID | Fruit Juice | | | | -- |
| 0 | TRANS-PICEID | Fruit | | | | -- |
| 5 | TRANS-RESVERATROL | Fruit | | | | -- |
| 1 | TRIACONTAN-1-OL | Root | | | | -- |
| 0 | TRIACONTAN-1-OL-TRIDECANOATE | Root | | | | -- |
| 29 | TRYPTOPHAN | Fruit | 30.0 | 154.0 | -0.9774261540468739 | USDA's Ag Handbook 8 and sequelae) |
| 8 | TYROSINE | Fruit | 120.0 | 617.0 | -0.7465880361585973 | USDA's Ag Handbook 8 and sequelae) |
| 89 | URSOLIC-ACID | Fruit | | | | -- |
| 0 | URSOLIC-ALDEHYDE | Stem | | | | -- |
| 3 | VALINE | Fruit | 180.0 | 926.0 | -0.7277174826511351 | USDA's Ag Handbook 8 and sequelae) |
| 24 | VANILLIC-ACID | Hull Husk | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 24 | VANILLIC-ACID | Leaf | | | | -- |
| 0 | VANILLIC-ALDEHYDE | Leaf | | | | -- |
| 28 | VANILLIN | Fruit | | | | -- |
| 2 | VIOLAXANTHIN | Fruit | | | | -- |
| 0 | VIT-B-6 | Fruit | 1.0 | 6.0 | -0.3708031557292606 | -- |
| 0 | VITAMIN-B-6 | Fruit | 1.0 | 6.0 | | USDA's Ag Handbook 8 and sequelae) |
| 0 | VITILAGIN | Leaf | | 89.0 | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|---------------------|----------|----------|----------------------|--|
| 0 | VITIS-ARABINOGALACTAN-PROTEIN-AG-P | Fruit | | | | -- |
| 0 | VITISPIRANE | Plant | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | VOMIFOLIOL | Fruit | | | | -- |
| 0 | WATER | Stem | | 792000.0 | 0.21078766023930146 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | WATER | Fruit | 761000.0 | 897000.0 | 0.5497045312138683 | -- |
| 3 | XYLOSE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | ZEATIN | Resin, Exudate, Sap | | | | -- |
| 0 | ZEATIN-RIBOSIDE | Resin, Exudate, Sap | | | | -- |
| 5 | ZEAXANTHIN | Fruit | | | | -- |
| 77 | ZINC | Stem | | 75.0 | -0.6142974269256724 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 77 | ZINC | Fruit | 0.4 | 27.0 | -0.09932995693106657 | -- |
| 0 | ZIRCONIUM | Fruit | 0.44 | 1.54 | -0.41983235298720856 | -- |