

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Citrullus lanatus

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|---|-------------|---------|----------|--------|-------------------|
| 0 | (+)-VALINE | Plant | | | | -- |
| 0 | 2,4-METHYLENE-CHOLESTEROL | Seed | | | | -- |
| 0 | 2-(CIS-2-NONENYL-OXY)-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-(CIS-CIS-3,6-NONADIENYL-OXY)-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-(ON-CIS-3-ENYL-OXY)-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-BENZYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-ETHOXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-HEXYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-HYDROXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-NONYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-OCTYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-PENTYL-FURAN | Fruit Juice | | | | -- |
| 0 | 2-PENTYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 2-PHENETHYL-OXY-5-PENTYL-TETRAHYDROFURAN | Fruit Juice | | | | -- |
| 0 | 22-DIHYDRO-SPINASTEROL | Seed | | | | -- |
| 0 | 22-DIHYDROBRASSICASTEROL | Seed | | | | -- |
| 0 | 24-BETA-ETHYL-25(27)-DEHYDROLATHOSTEROL | Seed | | | | -- |
| 0 | 24-BETA-ETHYL-25-(27)-DEHYDROLOPHENOL | Seed | | 3.0 | | -- |
| 0 | 24-BETA-ETHYL-LOPHENOL | Seed | | | | -- |
| 0 | 24-METHYL-LATHOSTEROL | Seed | | | | -- |
| 0 | 25(27)-DEHYDRO-CHONDRILLASTEROL | Seed | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|-------------|---------|----------|----------------------|---|
| 0 | 25(27)-DEHYDRO-FUNGISTEROL | Seed | | | | -- |
| 0 | 25(27)-DEHYDRO-PORIFERASTEROL | Seed | | | | -- |
| 0 | 3-METHYL-BUTAN-1-OL | Fruit Juice | | | | -- |
| 0 | 4-OXO-NONAN-1-AL | Fruit Juice | | | | -- |
| 0 | 6-METHYL-HEPT-5-EN-2-ONE | Fruit Juice | | | | -- |
| 0 | 7-DEHYDRO-AVENASTEROL | Seed Oil | | | | -- |
| 6 | ACETOPHENONE | Fruit Juice | | | | -- |
| 3 | ALANINE | Seed | | 15000.0 | 1.029690020598315 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 3 | ALANINE | Fruit | | 2000.0 | -0.6710955118570772 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 12 | ALLANTOIN | Seed | | 450.0 | 1.0 | -- |
| 0 | ALPHA-AMINO-BETA-(1-IMIDAZOYL)-PROPIONIC-ACID | Plant | | | | -- |
| 2 | ALPHA-SPINASTEROL | Seed Oil | | | | -- |
| 0 | AMINO-ACIDS | Seed | | | | -- |
| 14 | ARGININE | Seed | | 46600.0 | 0.929850467927722 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 14 | ARGININE | Fruit | | 6949.0 | 0.7039836472964519 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 112 | ASCORBIC-ACID | Fruit | | 94.0 | -0.27864436815713767 | -- |
| 0 | ASH | Seed | | 62000.0 | 0.4246927171829582 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------|----------------|---------|----------|----------------------|---|
| 0 | ASH | Fruit | | 30600.0 | -0.674930125714854 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 3 | ASPARTIC-ACID | Seed | | 25500.0 | 0.2584277890834008 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 3 | ASPARTIC-ACID | Fruit | | 4594.0 | -0.7310504308235704 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | AVENASTEROL | Seed | | | | -- |
| 24 | BENZALDEHYDE | Fruit Juice | | | | -- |
| 9 | BENZYL-ALCOHOL | Fruit Juice | | | | -- |
| 53 | BETA-CAROTENE | Fruit | 2.0 | 48.0 | -0.05801749395743059 | -- |
| 13 | BETA-IONONE | Fruit Juice | | | | -- |
| 13 | BETA-IONONE | Fruit | | | | -- |
| 0 | BETA-IONONE-EPOXIDE | Fruit Juice | | | | -- |
| 47 | BETA-SITOSTEROL | Fruit | | 10.0 | -0.7811022213118411 | 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 | Fruit | 1.0 | 4.0 | -0.7233703732714263 | 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). |
| 3 | BRYONOLIC-ACID | Tissue Culture | | | | -- |
| 3 | BRYONOLIC-ACID | Plant | | | | -- |
| 0 | BUTAN-1-OL | Fruit Juice | | | | -- |
| 0 | BUTAN-4-OLIDE | Fruit Juice | | | | -- |
| 102 | CAFFEIC-ACID | Seed | | | | -- |
| 28 | CALCIUM | Seed | 1294.0 | 1300.0 | -0.5227673999999125 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------|-------------|---------|----------|----------------------|--|
| 28 | CALCIUM | Fruit | 100.0 | 3400.0 | -0.10529282176440947 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 2 | CAMPESTEROL | Fruit | | | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 2 | CAMPESTEROL | Seed | | | | -- |
| 2 | CAMPESTEROL | Seed Oil | | | | -- |
| 3 | CAPRIC-ACID | Seed | 2200.0 | 4840.0 | -0.30943296733156234 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 5 | CAPRYLIC-ACID | Seed | 400.0 | 880.0 | -0.5843771702554066 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | CARBOHYDRATES | Seed | 44000.0 | 48000.0 | -1.8893447311177833 | -- |
| 0 | CARBOHYDRATES | Fruit | 3800.0 | 859000.0 | 0.4070437865584783 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | CINEOL | Seed | | | | -- |
| 6 | CINNAMYL-ALCOHOL | Fruit Juice | | | | -- |
| 0 | CIS,CIS-3,6-NONADIEN-1-OL | Fruit | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CITRULLIC-ACID | Plant | | | | -- |
| 5 | CITRULLINE | Fruit | 1627.0 | 3705.0 | 1.7302359496972917 | -- |
| 0 | CITRULLOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | CLEROSTEROL | Seed | | | | -- |
| 0 | CODISTEROL | Seed | | | | -- |
| 12 | COPPER | Fruit | | 4.0 | -0.6863742487163819 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 8 | CUCURBITACIN-B | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------------|-------------|----------|----------|---------------------|---|
| 6 | CUCURBITACIN-E | Leaf | | | | -- |
| 6 | CUCURBITACIN-E | Fruit | | | | -- |
| 0 | CUCURBITACIN-E-GLUCOSIDE | Fruit | | | | -- |
| 0 | CUCURBITACIN-E-GLYCOSIDE | Fruit | | | | -- |
| 0 | CUCURBITACIN-II | Fruit | | | | -- |
| 1 | CUCURBITOCITRIN | Seed | | | | -- |
| 3 | CYCLOEUCALENOL | Seed | | | | -- |
| 13 | CYSTEINE | Seed | | 5742.0 | 0.19782577765447393 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 13 | CYSTEINE | Fruit | | 236.0 | -1.0 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 5 | DAPHNETIN | Seed | | | | -- |
| 0 | DEC-TRANS-2-ENAL | Fruit | | | | -- |
| 0 | DECA-TRANS-2,TRANS-4-DIEN-1-AL | Fruit Juice | | | | -- |
| 0 | DECA-TRANS-2-CIS-4-DIEN-1-AL | Fruit Juice | | | | -- |
| 0 | DODECAN-1-OL | Fruit Juice | | | | -- |
| 24 | ETHANOL | Fruit Juice | | | | -- |
| 0 | FARNESYL-ACETONE | Fruit Juice | | | | -- |
| 0 | FAT | Seed | 200000.0 | 571000.0 | 1.6097698742458455 | -- |
| 0 | FAT | Fruit | 200.0 | 89000.0 | 0.03852275132214275 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | FATTY-ACIDS | Seed | | | | -- |
| 15 | FIBER | Seed | 67000.0 | 316000.0 | 1.430953367088329 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 15 | FIBER | Fruit | 35300.0 | 257000.0 | 1.088249102567049 | -- |
| 15 | FOLACIN | Fruit | | 0.259 | -0.7306474642603418 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------------------|-------------|---------|----------|----------------------|--|
| 23 | FOLIC-ACID | Fruit | | 0.259 | -0.9781598366401939 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | FRAXIDIN | Seed | | | | -- |
| 13 | GERANIAL | Fruit Juice | | | | -- |
| 13 | GERANIAL | Fruit | | | | -- |
| 35 | GERANIOL | Fruit Juice | | | | -- |
| 2 | GERANYL-ACETONE | Fruit Juice | | | | -- |
| 0 | GLOBULIN | Seed | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 8 | GLUTAMIC-ACID | Seed | | 53000.0 | 0.4761995241133043 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 8 | GLUTAMIC-ACID | Fruit | | 7420.0 | -0.45273980737780517 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | GLUTELIN | Seed | | | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 12 | GLYCINE | Fruit | | 1178.0 | -0.9386946705890442 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | GRAMISTEROL | Seed | | | | -- |
| 0 | HENTRIACONTANE | Fruit | | | | -- |
| 0 | HEPT-TRANS-2-EN-1-AL | Fruit Juice | | | | -- |
| 0 | HEPT-TRANS-2-ENAL | Fruit | | | | -- |
| 0 | HEPTA-TRANS-2-CIS-4-DIEN-1-AL | Fruit Juice | | | | -- |
| 0 | HEPTA-TRANS-2-TRANS-4-DIEN-1-AL | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------|-------------|---------|----------|----------------------|--|
| 0 | HEPTAN-2-ONE | Fruit Juice | | | | -- |
| 0 | HEX-CIS-EN-1-OL | Fruit Juice | | | | -- |
| 0 | HEX-TRANS-2-EN-1-AL | Fruit Juice | | | | -- |
| 0 | HEX-TRANS-2-ENAL | Fruit | | | | -- |
| 0 | HEX-TRANS-3-EN-1-OL | Fruit Juice | | | | -- |
| 0 | HEXAN-1-AL | Fruit Juice | | | | -- |
| 0 | HEXAN-1-AL | Fruit | | | | -- |
| 0 | HEXAN-1-OL | Fruit Juice | | | | -- |
| 7 | HISTIDINE | Seed | | 7018.0 | 0.23764592476267077 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 7 | HISTIDINE | Fruit | | 707.0 | -0.7050530351595478 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 1 | HYDROXYPROLINE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | IRON | Seed | | 75.0 | -0.35215797906396656 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 6 | IRON | Fruit | 2.0 | 143.0 | 0.039754275898127606 | -- |
| 5 | ISOFRAXIDIN | Seed | | | | -- |
| 0 | ISOFUCOSTEROL | Seed | | | | -- |
| 3 | ISOLEUCINE | Seed | | 12100.0 | 0.20524005689676544 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 3 | ISOLEUCINE | Fruit | | 2238.0 | -0.4204244192171918 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------------|------------|---------|----------|----------------------|--|
| 0 | KILOCALORIES | Fruit | | 3513.0 | -0.22410600170435108 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | KILOCALORIES | Seed | | 6500.0 | 1.2844790550738516 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | L-(+)-ISOLEUCINE | Plant | | | | -- |
| 0 | L-(-)-PHENYLALANINE | Plant | | | | -- |
| 0 | L-(-)-THREONINE | Plant | | | | -- |
| 0 | L-(-)-TYROSINE | Plant | | | | -- |
| 0 | L-BETA-(PYRAZOL-1-YL)-ALANINE | Seed | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | L-BETA-(PYRAZOL-1-YL)-ALANINE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | L-GLUTAMIC-ACID | Seed | | | | -- |
| 7 | LAURIC-ACID | Seed | 1600.0 | 3250.0 | -0.4831852350597927 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 2 | LEUCINE | Seed | | 21100.0 | 0.3846508332663674 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 2 | LEUCINE | Fruit | | 2120.0 | -0.6337573482739223 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 27 | LINOLEIC-ACID | Seed | 52000.0 | 210280.0 | 0.8838663006203578 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 27 | LINOLEIC-ACID | Cotyledon | | 486700.0 | 0.16004066347331836 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------|-----------------|---------|----------|----------------------|--|
| 0 | LUPINIC-ACID | Sprout Seedling | | | | -- |
| 15 | LUTEIN | Fruit | 0.14 | 3.0 | -0.575590894746515 | -- |
| 16 | LYCOPENE | Fruit | 45.0 | 900.0 | 1.8766429320601818 | -- |
| 4 | LYSINE | Seed | | 8932.0 | -0.4289343609472212 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 4 | LYSINE | Fruit | | 7303.0 | 0.8258091084664485 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 65 | MAGNESIUM | Fruit | 1081.0 | 1500.0 | -0.2916047454654987 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 14 | MANGANESE | Fruit | | 4.0 | -0.37716201175428304 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 15 | METHIONINE | Seed | | 5742.0 | 0.36853071981172086 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 15 | METHIONINE | Fruit | | 707.0 | -0.30972946336439705 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 6 | MYRISTIC-ACID | Seed | 400.0 | 800.0 | -0.2855305257263749 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | N-ACETYL-SERINE | Fruit | | | | -- |
| 0 | N-HENEICOSANE | Fruit Juice | | | | -- |
| 0 | N-HEXADECANE | Fruit Juice | | | | -- |
| 0 | N-NONADECANE | Fruit Juice | | | | -- |
| 0 | N-OCTACOSANOL | Fruit | | | | -- |
| 0 | N-OCTADECANE | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|-------------|---------|----------|----------------------|--|
| 0 | N-PENTADECANE | Fruit Juice | | | | -- |
| 0 | NEOLYCOPENE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | NERAL | Fruit Juice | | | | -- |
| 0 | NEUROSPORIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 39 | NIACIN | Fruit | 15.0 | 27.0 | -0.45048529250390834 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 0 | NON-CIS-3-EN-1-AL | Fruit Juice | | | | -- |
| 0 | NON-CIS-3-EN-1-OL | Fruit Juice | | | | -- |
| 0 | NON-CIS-3-EN-1-OL | Fruit | | | | -- |
| 0 | NON-CIS-6-EN-1-OL | Fruit | | | | -- |
| 0 | NON-CIS-6-EN-1-OL | Fruit Juice | | | | -- |
| 0 | NON-TRANS-2-EN-1-OL | Fruit | | | | -- |
| 0 | NON-TRANS-2-EN-AL | Fruit | | | | -- |
| 0 | NONA-CIS-3,6-CIS-DIEN-1-AL | Fruit Juice | | | | -- |
| 0 | NONA-CIS-3,CIS-6-DIEN-1-OL | Fruit | | | | -- |
| 0 | NONA-CIS-3-CIS-6-DIEN-10-OL | Fruit Juice | | | | -- |
| 0 | NONA-TRANS-2,CIS-6-DIEN-1-AL | Fruit Juice | | | | -- |
| 0 | NONA-TRANS-2,CIS-6-DIEN-1-OL | Fruit | | | | -- |
| 0 | NONA-TRANS-2-CIS-6-DIENAL | Fruit | | | | -- |
| 0 | NONAN-1-AL | Fruit Juice | | | | -- |
| 0 | NONAN-1-AL | Fruit | | | | -- |
| 0 | NONAN-1-OL | Fruit | | | | -- |
| 0 | NONAN-1-OL | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------------|-------------|---------|----------|--------------------|--|
| 0 | NONAN-2-ONE | Fruit Juice | | | | -- |
| 0 | NONAN-4-OLIDE | Fruit Juice | | | | -- |
| 0 | O-ACETYL-SERINE | Fruit | | | | -- |
| 0 | OBTUSIFOLIOL | Seed | | | | -- |
| 0 | OCT-1-EN-3-OL | Fruit Juice | | | | -- |
| 0 | OCT-1-EN-3-ONE | Fruit Juice | | | | -- |
| 0 | OCT-TRANS-2-EN-1-AL | Fruit Juice | | | | -- |
| 0 | OCT-TRANS-2-EN-1-OL | Fruit Juice | | | | -- |
| 0 | OCT-TRANS-2-ENAL | Fruit | | | | -- |
| 0 | OCTAN-1-AL | Fruit Juice | | | | -- |
| 0 | OCTAN-1-OL | Fruit Juice | | | | -- |
| 18 | OLEIC-ACID | Seed | 71000.0 | 189000.0 | 0.5745907593403166 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 18 | OLEIC-ACID | Cotyledon | | 241000.0 | 0.9197508532724963 | -- |
| 0 | OXYSILVINE | Seed | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 13 | PALMITIC-ACID | Seed | 15200.0 | 55000.0 | 0.4352274100182752 | -- |
| 13 | PALMITIC-ACID | Cotyledon | | 206300.0 | -1.727557853929548 | -- |
| 11 | PANTOTHENIC-ACID | Fruit | | 25.0 | 0.4398424963040165 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 24 | PECTIN | Fruit | | | | -- |
| 0 | PENT-1-EN-3-OL | Fruit Juice | | | | -- |
| 0 | PENT-CIS-2-EN-1-OL | Fruit Juice | | | | -- |
| 0 | PENT-TRANS-2-EN-1-AL | Fruit Juice | | | | -- |
| 0 | PENTADEC-1-ENE | Fruit Juice | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------|-------------|---------|----------|-----------------------|--|
| 0 | PENTAN-1-AL | Fruit Juice | | | | -- |
| 0 | PENTAN-1-OL | Fruit Juice | | | | -- |
| 6 | PHENETHYL-ALCOHOL | Fruit Juice | | | | -- |
| 7 | PHENYLALANINE | Seed | | 16600.0 | 0.6042024770392214 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 7 | PHENYLALANINE | Fruit | | 1767.0 | -0.5405989656840343 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 4 | PHOSPHORUS | Fruit | 1.0 | 2900.0 | -0.09598014885507253 | -- |
| 4 | PHOSPHORUS | Seed | 8300.0 | 14600.0 | 2.443509731398302 | -- |
| 5 | PHYLLOQUINONE | Fruit | | 0.003 | -0.2325377501021479 | -- |
| 0 | PHYSETOLIC-ACID | Plant | | | | -- |
| 0 | PHYTOFLUIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PHYTOIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | PHYTOSTEROLS | Fruit | 20.0 | 236.0 | -0.9138748529599334 | -- |
| 12 | PINENE | Seed | | | | -- |
| 0 | POLY-CIS-LYCOPENE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | POTASSIUM | Fruit | 13514.0 | 18000.0 | 0.0073869157433379936 | -- |
| 0 | PRO-BETA-CAROTENE | Fruit | | | | -- |
| 0 | PROLINE | Seed | | 11800.0 | 0.09118447788174708 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---|------------|----------|----------|----------------------|--|
| 0 | PROLINE | Fruit | | 2827.0 | -0.3240363604117524 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | PRONEUROSPORIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PROTEIN | Seed | 198000.0 | 600000.0 | 3.2575736283478713 | -- |
| 0 | PROTEIN | Fruit | 1000.0 | 100000.0 | -0.12733205905952616 | -- |
| 0 | PROTEIN-CVTI-I | Seed | | | | -- |
| 15 | RIBOFLAVIN | Seed | | 1.0 | -0.9674166926890354 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 15 | RIBOFLAVIN | Fruit | 2.0 | 8.0 | 0.6405083179917069 | -- |
| 87 | RUTIN | Seed | 15000.0 | 16500.0 | 1.606098941923909 | -- |
| 1 | SERINE | Seed | | 13700.0 | 0.5990405458975957 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 1 | SERINE | Fruit | | 1885.0 | -0.6206649689838999 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 1 | SODIUM | Fruit | 135.0 | 236.0 | -0.1615711715033237 | -- |
| 0 | SPINASTEROL | Seed | | | | -- |
| 8 | STEARIC-ACID | Cotyledon | | 59100.0 | -0.5870403836004546 | -- |
| 8 | STEARIC-ACID | Seed | 12200.0 | 66000.0 | 0.8665858434484109 | -- |
| 0 | STIGMAST-7-EN-3BETA-OL-BETA-D-GLUCOPYRANOSIDE | Plant | | | | J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991. |
| 0 | STIGMASTA-7,25-DIEN-3-BETA-OL | Seed Oil | | | | -- |
| 0 | STIGMASTA-7-22-25-TRIEN-3-BETA-OL | Seed Oil | | | | -- |
| 12 | STIGMASTEROL | Seed | | | | -- |
| 12 | STIGMASTEROL | Seed Oil | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------|------------|----------|----------|----------------------|---|
| 31 | THIAMIN | Fruit | 4.0 | 9.0 | 0.46943256721187576 | -- |
| 4 | THREONINE | Fruit | | 3180.0 | 0.06746781297128561 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 4 | THREONINE | Seed | | 15300.0 | 1.6022227898473942 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 4 | TRYPTAMINE | Fruit | | | | -- |
| 29 | TRYPTOPHAN | Fruit | | 825.0 | -0.03571324596706864 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 8 | TYROSINE | Seed | | 10200.0 | 0.5695893587686409 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 8 | TYROSINE | Fruit | | 1413.0 | -0.4167463140410469 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | UNDEC-TRANS-2-ENAL | Fruit | | | | -- |
| 0 | UREASE | Seed | | 10000.0 | | -- |
| 3 | VALINE | Seed | | 10200.0 | -0.22310841653412938 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 3 | VALINE | Fruit | | 1885.0 | -0.5298493040680791 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 0 | WATER | Seed | 71000.0 | 81000.0 | -0.5625925943807273 | -- |
| 0 | WATER | Fruit | 915100.0 | 957000.0 | 0.8105901474331062 | -- |
| 77 | ZINC | Fruit | | 8.0 | -0.6709616277275268 | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |