**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in Cucumis melo**

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 0 | 2,4-METHYLENE-CHOLESTEROL | Seed | -- | -- | | |
| 0 | 22-DIHYDRO-SPINASTEROL | Seed | -- | -- | | |
| 0 | 22-DIHYDROBRASSICASTEROL | Seed | -- | -- | | |
| 0 | 24-BETA-ETHYL-25(27)-DEHYDROLATHOSTEROL | Seed | -- | -- | | |
| 0 | 24-METHYL-25(27)-DEHYDROCYCLOARTANOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | 24-METHYL-LATHOSTEROL | Seed | -- | -- | | |
| 0 | 24-METHYLENE-24-DIHYDRO-PARKEOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | 24-METHYLENE-24-DIHYDROLANASETOL | Seed | -- | -- | | |
| 5 | 24-METHYLENE-CYCLOARTANOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | 25(27)-DEHYDRO-CHONDRILLASTEROL | Seed | -- | -- | | |
| 0 | 25(27)-DEHYDRO-FUNGISTEROL | Seed | -- | -- | | |
| 0 | 25(27)-DEHYDRO-PORIFERASTEROL | Seed | -- | -- | | |
| 0 | 3,4-DIMETHOXY-ACETOPHENONE-ISOMER | Petiole | -- | -- | | |
| 2 | 3-PHENYL-PROPYL-ACETATE | Petiole | -- | -- | | |
| 6 | ACETALDEHYDE | Petiole | -- | -- | | |
| 28 | ADENOSINE | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 10 | ALPHA-AMYRIN | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 7 | ALPHA-CAROTENE | Fruit | -- | -- | | |
| 2 | ALPHA-SPINASTEROL | Stem | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 32 | ALPHA-TOCOPHEROL | Fruit | 1.4 | 14 | -0.9061262102406885 | USDA's Ag Handbook 8 and sequelae) |
| 5 | ALUMINUM | Fruit | 26 | 77 | -0.20112044254257924 | |
| 0 | ARACHIDIC-ACID | Seed | 2700 | 4014 | -0.26284935814682187 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | ARACHIDIC-ACID | Cotyledon | 10200 | 55300 | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 2 | ARSENIC | Fruit | 0.004 | 0.006 | -0.529234677317701 | |
| 112 | ASCORBIC-ACID | Fruit | 397 | 4370 | -0.012775547246317728 | USDA's Ag Handbook 8 and sequelae) |
| 0 | ASH | Fruit | 6950 | 110000 | 1.381160459916271 | |
| 0 | AVENASTEROL | Seed | -- | -- | | |
| 0 | BARIUM | Fruit | 1.3 | 7.7 | -0.9084927937454443 | |
| 1 | BEHENIC-ACID | Leaf | -- | -- | | |
| 24 | BENZALDEHYDE | Petiole | -- | -- | | |
| 9 | BENZYL-ACETATE | Petiole | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 2 | BENZYL-PROPIONATE | Petiole | -- | -- | | |
| 9 | BETA-AMYRIN | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 53 | BETA-CAROTENE | Fruit | 0.2 | 201 | 0.23772874940716746 | USDA's Ag Handbook 8 and sequelae) |
| 2 | BETA-CRYPTOXANTHIN | Fruit | -- | -- | | |
| 13 | BETA-IONONE | Petiole | -- | -- | | |
| 0 | 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. |
| 47 | BETA-SITOSTEROL | Fruit | -- | 160 | -0.5840200796856407 | 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 | 16.5 | -0.4716980311626207 | |
| 0 | BUTYL-ACETATE | Petiole | -- | -- | | |
| 3 | CADMIUM | Fruit | 0.017 | 0.044 | -0.5143122015706074 | |
| 102 | CAFFEIC-ACID | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| 28 | CALCIUM | Fruit | 96 | 3080 | -0.1791361412038464 | |
| 2 | CAMPESTEROL | Seed | -- | -- | | |
| 3 | CAPRIC-ACID | Seed | 2400 | 3570 | -0.36702720299800934 | |
| 1 | CAPROIC-ACID | Seed | 3000 | 5350 | 0.4236367050993108 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 5 | CAPRYLIC-ACID | Seed | 6000 | 8920 | -0.277745629338495 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | CARBOHYDRATES | Fruit | 83600 | 818026 | 0.1879347517881612 | USDA's Ag Handbook 8 and sequelae) |
| 0 | CERYL-ALCOHOL | Seed | -- | -- | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 24 | CHROMIUM | Fruit | 0.13 | 0.165 | -0.48445762358120437 | |
| 0 | CINNAMIC-ACETATE | Petiole | -- | -- | | |
| 0 | CIS,CIS-3,6-NONADIEN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CIS-3-NONEN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CIS-6-NONEN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CIS-6-NONENAL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | CIS-CIS-NONA-3,6-DIENYL-ACETATE | Petiole | -- | -- | | |
| 23 | CITRIC-ACID | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 5 | CITRULLINE | Fruit | 142 | 241 | -0.5131062405753505 | |
| 0 | CLEROSTEROL | Seed | -- | -- | | |
| 2 | COBALT | Fruit | 0.087 | 0.11 | -0.5217986992297641 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 0 | CODISTEROL | Seed | -- | -- | | |
| 12 | COPPER | Fruit | 0.4 | 7.7 | -0.3984053050544054 | |
| 8 | CUCURBITACIN-B | Fruit | -- | -- | | |
| 6 | CUCURBITACIN-E | Fruit | -- | -- | | |
| 3 | CUCURBITIN | Seed | -- | -- | | |
| 7 | CYCLOARTENOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 1 | EPSILON-CAROTENE | Fruit | -- | -- | | |
| 24 | ETHANOL | Petiole | -- | -- | | |
| 0 | ETHYL-(METHYLTHIO)-ACETATE | Petiole | -- | -- | | |
| 0 | ETHYL-2-METHYL-BUTYRATE | Petiole | -- | -- | | |
| 0 | ETHYL-2-METHYL-BUTYRATER | Petiole | -- | -- | | |
| 6 | ETHYL-ACETATE | Petiole | -- | -- | | |
| 0 | ETHYL-DECANOATE | Petiole | -- | -- | | |
| 5 | EUGENOL-METHYL-ETHER | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| 1 | EUPHOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | FAT | Fruit | 2600 | 29355 | -0.417040961026947 | USDA's Ag Handbook 8 and sequelae) |
| 0 | FAT | Seed | 300000 | 446000 | 0.9513501618469027 | |
| 61 | FERULIC-ACID | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 15 | FIBER | Fruit | 3180 | 39357 | -0.9655348657675582 | USDA's Ag Handbook 8 and sequelae) |
| 15 | FOLACIN | Fruit | 0.1 | 1.9 | -0.06005750796852785 | USDA's Ag Handbook 8 and sequelae) |
| 0 | GAMMA-GLUTAMYL-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 | GLOBULIN | Fruit | 26000 | 26000 | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | HEPTYL-ACETATE | Petiole | -- | -- | | |
| 0 | HEXADECENOIC-ACID | Seed | 2190 | 3255 | 1.2413960685288705 | |
| 1 | HEXYL-ACETATE | Petiole | -- | -- | | |
| 18 | HISTAMINE | Juice | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 6 | IRON | Fruit | 2 | 55 | -0.3093180063598038 | |
| 3 | ISOBUTYL-ACETATE | Petiole | -- | -- | | |
| 5 | ISOFRAXIDIN | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| 0 | KILOCALORIES | Fruit | 350 | 3425 | -0.35776280167983726 | USDA's Ag Handbook 8 and sequelae) |
| 7 | LAURIC-ACID | Seed | 360 | 8920 | -0.43233684732451505 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 0 | LEAD | Fruit | 1.74 | 2.2 | -0.36021278345606544 | |
| 27 | LINOLEIC-ACID | Cotyledon | 56100 | 726700 | 1.2359442834620131 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 27 | LINOLEIC-ACID | Seed | 99600 | 246192 | 1.1915638819054901 | |
| 0 | LINOLENIC-ACID | Cotyledon | 200500 | 219000 | 0.10036814387089069 | |
| 11 | LITHIUM | Fruit | 0.348 | 0.44 | -0.5049344652171736 | |
| 21 | LUPEOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 65 | MAGNESIUM | Fruit | 92 | 3300 | 0.5418998341350072 | |
| 1 | MALONIC-ACID | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | MANGANESE | Fruit | 0.4 | 7.7 | -0.3527646944182478 | |
| 0 | MARGARIC-ACID | Stem | -- | -- | | |
| 0 | MELODIN | Plant | -- | -- | | |
| 0 | MELONIN | Seed | -- | -- | | |
| 0 | MELOSIDE | Leaf | -- | -- | | |
| 0 | MELOSIDE-A-CAFFEOYL-ESTER | Leaf | -- | -- | | |
| 1 | MERCURY | Fruit | 0.001 | 0.001 | -0.7865389313824043 | |
| 2 | MOLYBDENUM | Fruit | 0.609 | 0.77 | -0.3309149921902472 | |
| 0 | MULTIFLORENOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 6 | MYRISTIC-ACID | Fruit | 1500 | 8920 | 0.15166436748144413 | |
| 39 | NIACIN | Fruit | 4.6 | 68 | 0.0976135544227392 | USDA's Ag Handbook 8 and sequelae) |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 3 | NICKEL | Fruit | 0.87 | 1.1 | -0.44492850398031125 | |
| 0 | NONAN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | NONANAL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | NONYL-ACETATE | Petiole | -- | -- | | |
| 0 | OCTYL-ACETATE | Petiole | -- | -- | | |
| 18 | OLEIC-ACID | Seed | 81000 | 200700 | 0.6707716289589275 | |
| 18 | OLEIC-ACID | Cotyledon | 40500 | 195300 | -0.3646682145518912 | |
| 13 | P-HYDROXY-BENZOIC-ACID | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| 13 | PALMITIC-ACID | Cotyledon | 122000 | 532300 | 0.675103666467349 | |
| 13 | PALMITIC-ACID | Seed | 9600 | 58400 | 0.505380442064981 | |
| 11 | PANTOTHENIC-ACID | Fruit | 1.2 | 14 | -0.26180763476426655 | USDA's Ag Handbook 8 and sequelae) |
| 1 | PENTADECANOIC-ACID | Leaf | -- | -- | | |
| 4 | PHOSPHORUS | Fruit | 121 | 2640 | -0.17495249383711084 | |
| 5 | PHYLLOQUINONE | Fruit | -- | 0.001 | -0.23285139490462353 | |
| 0 | PHYSETOLIC-ACID | Cotyledon | -- | -- | | |
| 2 | PHYTOSTEROLS | Fruit | 100 | 978 | 0.042030191475337916 | USDA's Ag Handbook 8 and sequelae) |
| 14 | POTASSIUM | Fruit | 3018 | 44000 | 2.3077011689515046 | |
| 0 | PROPYL-ACETATE | Petiole | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 0 | PROTEIN | Fruit | 8410 | 89924 | -0.26240522052263404 | USDA's Ag Handbook 8 and sequelae) |
| 0 | PROTEIN | Seed | 358000 | 358000 | 1.1048583018621319 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 15 | RIBOFLAVIN | Fruit | 0.2 | 2.4 | -0.5588248872268227 | USDA's Ag Handbook 8 and sequelae) |
| 87 | RUTIN | Plant | -- | -- | | Stitt, Paul. Why George should eat broccoli. |
| 7 | SALICYLATES | Leaf | 19 | 200 | -0.1417379927135192 | |
| 60 | SELENIUM | Fruit | 0.003 | 0.004 | -0.38519533142095475 | |
| 3 | SILVER | Fruit | 0.087 | 0.11 | -0.43140967622714665 | |
| 0 | SITOSTEROL | Seed | -- | -- | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| 1 | SODIUM | Fruit | 66 | 1115 | -0.07821658868872519 | USDA's Ag Handbook 8 and sequelae) |
| 8 | STEARIC-ACID | Cotyledon | 10100 | 61400 | -0.5578470239835672 | |
| 8 | STEARIC-ACID | Seed | 10080 | 35145 | 0.19713711780996532 | |
| 0 | STIGMAST-7-EN-3-BETA-OL | Stem | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 12 | STIGMASTEROL | Seed | -- | -- | | |
| 0 | STRONTIUM | Fruit | 2.6 | 16.5 | -0.8364653494654365 | |
| 0 | SUGAR | Fruit | 20000 | 30000 | -1.0714878987679288 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|---|---|---|---|---|---|---|
| 14 | SULFUR | Fruit | 139 | 198 | -0.846711926797232 | |
| 2 | TARAXEROL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 31 | THIAMIN | Fruit | 0.3 | 4.4 | -0.11939177425860867 | USDA's Ag Handbook 8 and sequelae) |
| 0 | TIRUCALLOL | Seed | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | TITANIUM | Fruit | 0.435 | 2.2 | -0.7039255039966572 | |
| 0 | TRANS,CIS-2,6-NONADIEN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | TRANS,CIS-2,6-NONADIENAL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | TRANS-2-NONEN-1-OL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 0 | TRANS-2-NONENAL | Fruit | -- | -- | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| 2 | TRIDECANOIC-ACID | Root | -- | -- | | |
| 15 | TRIGONELLINE | Seed | 2 | 6 | -0.46761724095611706 | |
| 0 | VIT-B-6 | Fruit | 1 | 13 | 0.805968517245724 | USDA's Ag Handbook 8 and sequelae) |
| 0 | WATER | Fruit | 896000 | 938000 | 0.7279763689636809 | |
| 77 | ZINC | Fruit | 1.5 | 31 | 0.021013552710293256 | |
| 0 | ZIRCONIUM | Fruit | 1.7 | 2.2 | -0.29684971083527095 | |