

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Lycopersicon esculentum*

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|------------|---------|----------|--------|--------------------|
| 0 | 1',2'-EPOXY-1',2'-DIHYDRO-BETA-EPSILON-PSEUDOCAROTENE | Fruit | -- | -- | | |
| 0 | 1',2'-EPOXY-1',2'-DIHYDRO-BETA-PSI-CAROTENE | Fruit | -- | -- | | |
| 0 | 1,2-EPOXY-1,2-DIHYDRO-PSI,PSI-CAROTENE | Fruit | -- | -- | | |
| 0 | 1-BUTYL-2-THIAZOL | Fruit | -- | -- | | |
| 0 | 1-O-FERULOYL-BETA-D-GLUCOSE | Fruit | -- | -- | | |
| 0 | 1-O-P-COUMAROYL-BETA-D-GLUCOSE | Fruit | -- | -- | | |
| 0 | 10,16-DIHYDROXY-DECANOIC-ACID | Fruit | -- | -- | | |
| 0 | 10,16-DIHYDROXY-HEXADECANOIC-ACID | Fruit | -- | -- | | |
| 0 | 16-HYDROXY-HEXADECANOIC-ACID | Fruit | -- | -- | | |
| 0 | 2,7-DIMETHYL-OCT-4-ENEDIOIC-ACID | Shoot | 1.2 | 1.2 | | |
| 0 | 2,7-DIMETHYL-OCTA-2,4-DIENOIC-ACID | Shoot | 1.8 | 1.8 | | |
| 0 | 2-BUTANONE | Fruit | -- | -- | | |
| 0 | 2-PENTANONE | Fruit | -- | -- | | |
| 0 | 2-PROPANONE | Fruit | -- | -- | | |
| 0 | 24-(R)-ETHYL-LOPHENOL | Seed | -- | -- | | |
| 0 | 24-METHYL-31-NOR-LANOST-9(11)-EN-3-BETA-OL | Seed | -- | -- | | |
| 0 | 24-METHYL-LOPHENOL | Seed | -- | -- | | |
| 0 | 24-METHYLENE-CYCLOARTANAL | Seed | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--|------------|---------|----------|--------|--------------------|
| 0 | 24-METHYLENE-CYCLOARTENAL | Plant | -- | -- | | |
| 0 | 3-BETA-HYDROXY-5-ALPHA-PREG-16-EN-20-ONE | Shoot | -- | -- | | |
| 0 | 3-O-FERULOYL-QUINIC-ACID | Leaf | -- | -- | | |
| 0 | 31-NOR-LANOST-8-EN-3-BETA-OL | Seed | -- | -- | | |
| 0 | 31-NOR-LANOST-9(11)-EN-3-BETA-OL | Seed | -- | -- | | |
| 0 | 31-NORCYCLOARTENAL | Seed | -- | -- | | |
| 0 | 4-ALPHA-24-DIMETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL | Seed | -- | -- | | |
| 0 | 4-ALPHA-METHYL-24-ETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL | Seed | -- | -- | | |
| 4 | 4-VINYL-GUAIACOL | Leaf | -- | -- | | |
| 4 | 4-VINYL-GUAIACOL | Seed | -- | -- | | |
| 0 | 5,6-EPOXY-5,6-DIHYDRO-PSEUDO-PSEUDOCAROTENE | Fruit | -- | -- | | |
| 15 | 5-HYDROXYTRYPTAMINE | Fruit | -- | -- | | |
| 0 | 5ALPHA-FUROSTANE-3BETA,22,26TRIOL-3-O-BETA-D-GLUCOPYRANOSYL... | Plant | -- | -- | | |
| 0 | 9,10,16-TRIHYDROXYHEXADECANOIC-ACID | Fruit | -- | -- | | |
| 0 | 9,10,18-TRIHYDROXY-OCTADECANOIC-ACID | Fruit | -- | -- | | |
| 0 | ABSCISIC-ACID | Leaf | -- | -- | | |
| 0 | ABSCISIC-ACID-1',4'-TRANS-DIOL | Fruit | -- | -- | | |
| 0 | ABSCISIC-ACID-1',4'-TRANS-DIOL | Leaf | -- | -- | | |
| 0 | ABSCISIC-ACID-1'O-BETA-D-GLUCOPYRANOSIDE | Stem | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------------|------------|---------|----------|---------------------|--------------------|
| 6 | ACETALDEHYDE | Fruit | -- | -- | | |
| 16 | ACETIC-ACID | Fruit | -- | -- | | |
| 3 | ACETONE | Fruit | -- | -- | | |
| 28 | ADENOSINE | Flower | -- | -- | | |
| 3 | ALANINE | Fruit | 30 | 4132 | 0.16684043618350175 | |
| 10 | ALPHA-AMYRIN | Fruit | -- | -- | | |
| 0 | ALPHA-CAPROLACTONE | Fruit | -- | -- | | |
| 0 | ALPHA-IONENE | Fruit | -- | -- | | |
| 0 | ALPHA-KETO-GLUTARIC-ACID | Fruit | -- | -- | | |
| 15 | ALPHA-LINOLENIC-ACID | Fruit | 30 | 496 | -0.9278481523791202 | |
| 0 | ALPHA-NONALACTONE | Fruit | -- | -- | | |
| 0 | ALPHA-OCTALACTONE | Fruit | -- | -- | | |
| 0 | ALPHA-OXOGLUTARIC-ACID | Fruit | -- | -- | | |
| 28 | ALPHA-PINENE | Fruit | -- | -- | | |
| 32 | ALPHA-TOCOPHEROL | Fruit | 7 | 143 | 1.0794849431920743 | |
| 5 | ALUMINUM | Fruit | 0.3 | 1700 | 0.2710454015000243 | |
| 0 | ARABIC-ACID | Fruit | -- | -- | | |
| 14 | ARGININE | Fruit | 1 | 3637 | -0.1794507969292052 | |
| 2 | ARSENIC | Fruit | 0.003 | 0.043 | -0.4818181208539938 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------------|------------|---------|----------|----------------------|--------------------|
| 112 | ASCORBIC-ACID | Fruit | 50 | 2952 | -0.10094252293657557 | |
| 0 | ASH | Fruit | 5700 | 105461 | 1.2636214779492727 | |
| 2 | ASPARAGINE | Fruit | 300 | 300 | -0.7333785819554481 | |
| 3 | ASPARTIC-ACID | Fruit | 1230 | 20332 | 1.3365457848440367 | |
| 0 | AUROXANTHIN | Fruit | -- | -- | | |
| 0 | BARIUM | Fruit | -- | 60 | 1.7791776045592602 | |
| 24 | BENZALDEHYDE | Fruit | -- | -- | | |
| 9 | BENZYL-ALCOHOL | Fruit | -- | -- | | |
| 2 | BETA-ALANINE | Fruit | 6 | 6 | | |
| 9 | BETA-AMYRIN | Fruit | -- | -- | | |
| 53 | BETA-CAROTENE | Fruit | 7 | 113 | 0.0676263349229542 | |
| 0 | BETA-D-GLUCOPYRANOSYL-PHASEIC-ACID | Plant | -- | -- | | |
| 0 | BETA-IONENE | Fruit | -- | -- | | |
| 47 | BETA-SITOSTEROL | Fruit | -- | -- | | |
| 14 | BETAINE | Root | 23 | 23 | -0.3665186816680227 | |
| 14 | BETAINE | Shoot | 69 | 69 | -0.462299088318912 | |
| 4 | BIOTIN | Fruit | -- | -- | | |
| 4 | BORON | Fruit | -- | 96 | 1.1289380646493836 | |
| 0 | BUTANOL-2-ON-3 | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------------------|------------|---------|----------|----------------------|--------------------|
| 0 | BUTANOLS | Fruit | -- | -- | | |
| 0 | BUTYROLACTONE | Fruit | -- | -- | | |
| 3 | CADMIUM | Fruit | 0.005 | 1.7 | 4.352550688720398 | |
| 102 | CAFFEIC-ACID | Fruit | 6 | 6 | -0.33780275264769194 | |
| 0 | CAFFEIC-ACID-4-O-BETA-D-GLUCOSIDE | Fruit | -- | -- | | |
| 28 | CALCIUM | Fruit | 60 | 2400 | -0.3360531950126499 | |
| 28 | CALCIUM | Leaf | 60800 | 60800 | 2.894551698483533 | |
| 2 | CAMPESTEROL | Fruit | -- | -- | | |
| 5 | CAPRYLIC-ACID | Fruit | -- | -- | | |
| 0 | CARBOHYDRATES | Fruit | 43400 | 717400 | -0.3501641824823012 | |
| 0 | CARBOXYLIC-ACID | Leaf | -- | -- | | |
| 0 | CELLULASE | Fruit | -- | -- | | |
| 1 | CELLULOSE | Fruit | -- | -- | | |
| 0 | CERIUM | Fruit | 7 | 60 | | |
| 7 | CHLORINE | Fruit | 510 | 510 | -0.3346338596732354 | |
| 77 | CHLOROGENIC-ACID | Fruit | 18 | 18 | -1.090975910295016 | |
| 21 | CHLOROPHYLL | Fruit | 3 | 30 | -0.7928072718421142 | |
| 0 | CHLOROPHYLL-A | Fruit | -- | -- | | |
| 0 | CHLOROPHYLL-B | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------------------|------------|---------|----------|----------------------|--------------------|
| 20 | CHOLINE | Root | 36 | 36 | -0.4093082994350739 | |
| 20 | CHOLINE | Shoot | 48 | 48 | -0.7037260640737851 | |
| 24 | CHROMIUM | Fruit | -- | 3 | -0.08625884480319124 | |
| 60 | CINNAMALDEHYDE | Fruit | -- | -- | | |
| 0 | CIS-3-HEXENOL-1 | Fruit | 4 | 40 | | |
| 0 | CIS-5'-BETA-PSEUDOCAROTENE | Fruit | -- | -- | | |
| 0 | CIS-5'-EPSILON-PSEUDOCAROTENE | Fruit | -- | -- | | |
| 0 | CIS-5'-NEUROSPORENE | Fruit | -- | -- | | |
| 0 | CIS-5,CIS-5'-LYCOPENE | Fruit | 1 | 20 | | |
| 0 | CIS-5-LYCOPENE | Fruit | 1 | 20 | | |
| 0 | CIS-HEXEN-3-AL | Fruit | -- | -- | | |
| 53 | CITRAL | Fruit | -- | -- | | |
| 23 | CITRIC-ACID | Fruit | -- | -- | | |
| 1 | CITROSTADIENOL | Seed | -- | -- | | |
| 2 | COBALT | Fruit | -- | 1.4 | -0.36563225462787763 | |
| 12 | COPPER | Fruit | 0.4 | 100 | 6.785252397648407 | |
| 0 | CUTIN | Fruit | -- | -- | | |
| 0 | CYCLOARTANOL | Seed | -- | -- | | |
| 7 | CYCLOARTENOL | Seed | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------------|------------|---------|----------|----------------------|--------------------|
| 3 | CYCLOEUCALENOL | Seed | -- | -- | | |
| 0 | CYCLOHEXANOL | Fruit | -- | -- | | |
| 2 | CYSTINE | Fruit | 120 | 1984 | 0.9938328503061883 | |
| 0 | DAMASCENONE | Fruit | -- | -- | | |
| 0 | DECADIEN-TRANS-2,TRANS-4-AL | Fruit | -- | -- | | |
| 2 | DIACETYL | Fruit | -- | -- | | |
| 0 | DIHYDROXYTARTARIC-ACID | Fruit | -- | -- | | |
| 1 | DIHYDROZEATIN | Flower | -- | -- | | |
| 0 | EPOXY-5,6-IONENE | Fruit | -- | -- | | |
| 0 | EPOXY-LUTEIN | Fruit | -- | -- | | |
| 24 | ETHANOL | Fruit | -- | -- | | |
| 0 | ETHYL-PHENOL | Fruit | -- | -- | | |
| 1 | ETHYLENE | Fruit | -- | -- | | |
| 76 | EUGENOL | Fruit | -- | -- | | |
| 13 | FALCARINDIOL | Seed | -- | -- | | |
| 16 | FALCARINOL | Seed | -- | -- | | |
| 2 | FARNESAL | Fruit | -- | -- | | |
| 0 | FARNESYL-ACETONE | Fruit | -- | -- | | |
| 0 | FAT | Fruit | 1330 | 47441 | -0.27890154780629756 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---------------------------------|------------|---------|----------|-----------------------|--------------------|
| 0 | FAT | Seed | 150000 | 250000 | -0.08105194719463996 | |
| 61 | FERULIC-ACID | Fruit | -- | -- | | |
| 0 | FERULIC-ACID-O-BETA-D-GLUCOSIDE | Fruit | -- | -- | | |
| 15 | FIBER | Fruit | 4700 | 77691 | -0.6037968147292118 | |
| 0 | FLUORINE | Fruit | 0.02 | 1.7 | 0.3425843281954779 | |
| 15 | FOLACIN | Fruit | -- | 2 | -0.019192793995839758 | |
| 13 | FORMIC-ACID | Fruit | -- | -- | | |
| 8 | FRUCTOSE | Fruit | 11700 | 11700 | -0.753158464748984 | |
| 7 | FUMARIC-ACID | Fruit | -- | -- | | |
| 6 | FURFURAL | Fruit | -- | -- | | |
| 22 | GABA | Fruit | 220 | 480 | -0.5811047507123629 | |
| 2 | GAMMA-CAROTENE | Fruit | -- | -- | | |
| 8 | GENTISIC-ACID | Leaf | -- | -- | | |
| 2 | GERANYL-ACETONE | Fruit | -- | -- | | |
| 0 | GIBBERELLINS | Fruit | -- | -- | | |
| 7 | GLUCOSE | Fruit | 16300 | 16300 | -0.7221100985577108 | |
| 8 | GLUTAMIC-ACID | Fruit | 90 | 54053 | 3.1763013494537677 | |
| 3 | GLYCERIC-ACID | Fruit | -- | -- | | |
| 12 | GLYCINE | Fruit | 23 | 3637 | 0.012539998861881632 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------|------------|---------|----------|----------------------|--------------------|
| 4 | GLYCOLIC-ACID | Fruit | -- | -- | | |
| 0 | GLYOXAL | Fruit | -- | -- | | |
| 0 | GRAMISTEROL | Seed | -- | -- | | |
| 18 | GUAIACOL | Fruit | -- | -- | | |
| 0 | HEMICELLULOSE | Fruit | -- | -- | | |
| 0 | HEPTADIEN-TRANS-2,CIS-4-AL | Fruit | -- | -- | | |
| 0 | HEPTADIEN-TRANS-2,TRANS-4-AL | Fruit | -- | -- | | |
| 0 | HEPTULOSE | Fruit | -- | -- | | |
| 0 | HEXADIEN-TRANS-2-,TRANS-4-AL | Fruit | -- | -- | | |
| 0 | HEXANOLS | Fruit | -- | -- | | |
| 7 | HISTIDINE | Fruit | 30 | 2149 | 0.30596189437483906 | |
| 0 | HYDROCINNAMALDEHYDE | Fruit | -- | -- | | |
| 0 | I-VALERALDEHYDE | Fruit | -- | -- | | |
| 0 | I-VALERIC-ACID | Fruit | -- | -- | | |
| 7 | INDOLE-3-ACETIC-ACID | Root | -- | -- | | |
| 12 | IODINE | Fruit | -- | -- | | |
| 6 | IRON | Fruit | 1 | 800 | 2.6458962013920013 | |
| 0 | ISOAMYLOL | Fruit | 7 | 40 | | |
| 3 | ISOLEUCINE | Fruit | 210 | 3471 | -0.05009901385256443 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------|----------------|---------|----------|----------------------|--------------------|
| 0 | ISOPENTENYL-ADENINE | Root | -- | -- | | |
| 0 | ISOPENTENYL-ADENOSINE | Root | -- | -- | | |
| 1 | ISOVALERALDEHYDE | Fruit | 0.006 | 0.006 | | |
| 0 | JSGGALACTURONIC-ACID | Fruit | -- | -- | | |
| 75 | KAEMPFEROL | Seed | -- | -- | | |
| 0 | KETOHEPTOSE | Fruit | -- | -- | | |
| 8 | LACTIC-ACID | Fruit | -- | -- | | |
| 1 | LANOSTEROL | Seed | -- | -- | | |
| 0 | LEAD | Fruit | 0.003 | 60 | 3.0575794820959543 | |
| 2 | LEUCINE | Fruit | 330 | 5455 | 0.0752243388245229 | |
| 0 | LEUCINES | Fruit | 1 | 90 | -1 | |
| 0 | LEUCIONPINE | Tissue Culture | -- | -- | | |
| 0 | LEUCIONPINE-LACTAM | Tissue Culture | -- | -- | | |
| 0 | LINALOL | Fruit | -- | -- | | |
| 27 | LINOLEIC-ACID | Fruit | 830 | 13720 | -0.16183148310656464 | |
| 0 | LINOLENIC-ACID | Fruit | -- | -- | | |
| 11 | LITHIUM | Fruit | 0.28 | 0.68 | -0.20051020792681978 | |
| 0 | LOPHENOL | Seed | -- | -- | | |
| 21 | LUPEOL | Plant | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------|------------|---------|----------|---------------------|--------------------|
| 15 | LUTEIN | Fruit | -- | -- | | |
| 0 | LUTEIN-5,6-EPOXIDE | Fruit | -- | -- | | |
| 0 | LUTEIN-EPOXIDE | Fruit | -- | -- | | |
| 16 | LYCOPENE | Fruit | 1 | 20 | -0.9687150627932989 | |
| 0 | LYCOPERSICONOL | Root | -- | -- | | |
| 0 | LYCOPERSICONOLIDE | Root | 6.7 | 6.7 | | |
| 0 | LYCOPHYLL | Fruit | -- | -- | | |
| 0 | LYCOXANTHIN | Fruit | -- | -- | | |
| 4 | LYSINE | Fruit | 20 | 5455 | 0.34718888553826305 | |
| 65 | MAGNESIUM | Fruit | 70 | 6000 | 1.792156703535766 | |
| 65 | MAGNESIUM | Leaf | 4300 | 4300 | 0.06728634027474291 | |
| 15 | MALIC-ACID | Fruit | -- | -- | | |
| 14 | MANGANESE | Fruit | 0.6 | 100 | 0.2558494650725795 | |
| 1 | MERCURY | Fruit | 0.001 | 0.002 | -0.7398287649593115 | |
| 2 | METHANOL | Fruit | -- | -- | | |
| 15 | METHIONINE | Fruit | 16 | 1322 | 0.44760045063490406 | |
| 0 | METHYL-2-BUTYRIC-ACID | Fruit | -- | -- | | |
| 0 | METHYL-6-HEPTEN-5-ON-2 | Fruit | -- | -- | | |
| 0 | METHYL-GLYOXAL | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------------|------------|---------|----------|---------------------|--------------------|
| 21 | METHYL-SALICYLATE | Fruit | -- | -- | | |
| 0 | MEVALONIC-ACID | Fruit | 3 | 4 | -0.3511422318081673 | |
| 2 | MOLYBDENUM | Fruit | -- | 6 | 0.7172922262165865 | |
| 6 | MYRISTIC-ACID | Fruit | -- | -- | | |
| 0 | N(6)-ISOPENT-2-ENYL-ADENINE | Flower | -- | -- | | |
| 0 | N-DOTRIACONTANE | Fruit | -- | -- | | |
| 3 | N-HENTRIACONTANE | Fruit | -- | -- | | |
| 0 | N-HEXANOL | Fruit | -- | -- | | |
| 0 | N-PENTANOL | Fruit | 7 | 40 | | |
| 0 | N-TETRATRIACONTANE | Fruit | -- | -- | | |
| 0 | N-TRITRIACONTANE | Fruit | -- | -- | | |
| 6 | NARCOTINE | Fruit | -- | -- | | |
| 56 | NARINGENIN | Fruit | -- | -- | | |
| 0 | NEO-BETA-CAROTENE-B | Fruit | -- | -- | | |
| 0 | NEO-BETA-CAROTENE-U | Fruit | -- | -- | | |
| 2 | NEO-CHLOROGENIC-ACID | Leaf | -- | -- | | |
| 0 | NEODYMIUM | Fruit | 2 | 30 | | |
| 0 | NEOLYCOPENE-A | Fruit | -- | -- | | |
| 0 | NEOLYCOPENE-B | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------------------------|----------------|---------|----------|----------------------|--------------------|
| 0 | NEOTIGOGENIN | Tissue Culture | 300 | 1500 | | |
| 2 | NEOXANTHIN | Fruit | -- | -- | | |
| 0 | NESTIGOGENIN | Fruit | -- | -- | | |
| 0 | NEUROSPORINE | Fruit | -- | -- | | |
| 39 | NIACIN | Fruit | 6 | 99 | 0.5120297557575215 | |
| 3 | NICKEL | Fruit | 0.01 | 5 | 0.7411420124402034 | |
| 1 | NICOTIANAMINE | Leaf | -- | -- | | |
| 0 | NITROGEN | Fruit | 1300 | 23330 | 0.6105662880376689 | |
| 0 | NITROGEN | Leaf | 26000 | 26000 | -0.8883183976410487 | |
| 2 | NONACOSANE | Fruit | -- | -- | | |
| 6 | O-CRESOL | Fruit | -- | -- | | |
| 0 | O-HYDROXY-ACETOPHENONE | Fruit | -- | -- | | |
| 0 | OBTUSIFOLIOL | Seed | -- | -- | | |
| 18 | OLEIC-ACID | Fruit | 310 | 5124 | -0.4412527769086485 | |
| 9 | OXALIC-ACID | Fruit | 36 | 263 | -0.29184659005431485 | |
| 25 | P-COUMARIC-ACID | Fruit | -- | -- | | |
| 0 | P-COUMARIC-ACID-O-BETA-D-GLUCOSIDE | Fruit | -- | -- | | |
| 4 | P-HYDROXYBENZALDEHYDE | Plant | -- | -- | | |
| 13 | PALMITIC-ACID | Fruit | 210 | 3471 | -0.3114994807565609 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------|------------|---------|----------|----------------------|--------------------|
| 2 | PALMITOLEIC-ACID | Fruit | 10 | 165 | -0.31527384122418833 | |
| 11 | PANTOTHENIC-ACID | Fruit | 1 | 61 | 2.7361520161638526 | |
| 24 | PECTIN | Fruit | 100 | 31000 | -0.26219655982605244 | |
| 0 | PECTINESTERASE | Fruit | -- | -- | | |
| 0 | PENTANOLS | Fruit | -- | -- | | |
| 0 | PENTEN-1-OL-3 | Fruit | -- | -- | | |
| 26 | PHENOL | Fruit | -- | -- | | |
| 0 | PHENOLICS | Fruit | 27 | 570 | | |
| 0 | PHENYL-2-ETHANOL | Fruit | -- | -- | | |
| 2 | PHENYL-ACETALDEHYDE | Fruit | -- | -- | | |
| 0 | PHENYLACETONITRILE | Fruit | -- | -- | | |
| 7 | PHENYLALANINE | Fruit | 72 | 3801 | 0.1648088706306435 | |
| 0 | PHOSPHATIDYL-GLYCEROL | Leaf | -- | -- | | |
| 4 | PHOSPHORUS | Fruit | 110 | 8400 | 1.57458868730343 | |
| 4 | PHOSPHORUS | Leaf | 5500 | 5500 | 0.09724548038608762 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------|------------|---------|----------|----------------------|--|
| 5 | PHYLLOQUINONE | Plant | -- | 0.06 | -0.8744617423558159 | Booth, S. L., Suttie, J. W. 1998. Dietary intake and adequacy of vitamin K. J. Nutrition, 128(5): 785-788. |
| 0 | PHYTOENE | Fruit | -- | -- | | |
| 0 | PHYTOENE-1,2-OXIDE | Fruit | -- | -- | | |
| 0 | PHYTOFLUENE | Fruit | -- | -- | | |
| 2 | PHYTOSTEROLS | Fruit | 70 | 1157 | 0.2726326213323643 | |
| 2 | PIPECOLIC-ACID | Fruit | -- | -- | | |
| 0 | POLYGALACTURONASE | Fruit | -- | -- | | |
| 14 | POTASSIUM | Fruit | 780 | 58800 | 3.617110820777692 | |
| 14 | POTASSIUM | Leaf | 47000 | 47000 | 0.7354883261537547 | |
| 0 | PROLINE | Fruit | 170 | 2810 | -0.32870353592235396 | |
| 0 | PROLINE | Root | 541 | 541 | -0.940431214607169 | |
| 0 | PROLYCOPENE | Fruit | -- | -- | | |
| 0 | PROPANOLS | Fruit | -- | -- | | |
| 6 | PROPIONIC-ACID | Fruit | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|--------------------------|------------|---------|----------|----------------------|--------------------|
| 0 | PROTEIN | Fruit | 8790 | 148935 | 0.5286628949100235 | |
| 0 | PROTOPECTIN | Fruit | 11700 | 24200 | | |
| 1 | PYRUVIC-ACID | Fruit | -- | -- | | |
| 176 | QUERCETIN | Fruit | -- | -- | | |
| 1 | QUERCETIN-3-O-RHAMNOSIDE | Fruit | -- | -- | | |
| 44 | QUERCITRIN | Fruit | -- | -- | | |
| 15 | RIBOFLAVIN | Fruit | 1 | 8 | 0.6405083179917069 | |
| 6 | RISHITIN | Plant | -- | -- | | |
| 0 | RUBIDIUM | Fruit | 0.3 | 22 | 0.22373836408620662 | |
| 87 | RUTIN | Fruit | -- | -- | | |
| 87 | RUTIN | Leaf | 24000 | 24000 | 0.4854288744261521 | |
| 0 | RUTINOSIDE | Fruit | -- | -- | | |
| 0 | S-METHYL-METHIONINE | Fruit | 16 | 35 | | |
| 5 | SALICYLALDEHYDE | Fruit | -- | -- | | |
| 60 | SELENIUM | Fruit | 0.001 | 0.034 | -0.37775603960259097 | |
| 1 | SERINE | Fruit | 57 | 3967 | 0.11438876561478017 | |
| 4 | SILICON | Fruit | -- | -- | | |
| 3 | SILVER | Fruit | -- | 1.4 | 3.2317499543193087 | |
| 1 | SODIUM | Fruit | 10 | 6600 | 0.4419198012294464 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|------------|---------|----------|----------------------|--------------------|
| 0 | SOLADULCIDINE | Shoot | -- | -- | | |
| 26 | SOLANINE | Fruit | -- | -- | | |
| 10 | SQUALENE | Fruit | -- | -- | | |
| 5 | STARCH | Fruit | 120 | 10000 | -0.44130528294778915 | |
| 8 | STEARIC-ACID | Fruit | 80 | 1322 | -0.19154902378625838 | |
| 12 | STIGMASTEROL | Fruit | -- | -- | | |
| 0 | STRONTIUM | Fruit | -- | 140 | 1.2364149561469178 | |
| 7 | SUCCINIC-ACID | Fruit | -- | -- | | |
| 14 | SUCROSE | Fruit | -- | -- | | |
| 0 | SUGARS | Fruit | 15000 | 45000 | -0.6984481426660107 | |
| 0 | SULFOQUINOVOSYL-DIACYL-GLYCEROL | Leaf | -- | -- | | |
| 14 | SULFUR | Fruit | 107 | 2330 | 0.6371218913711442 | |
| 4 | SYRINGALDEHYDE | Plant | -- | -- | | |
| 6 | TARTARIC-ACID | Fruit | -- | -- | | |
| 0 | TETRA-DECA-CIS-6-ENE-1,3-DIYNE-5,8-DIOL | Stem | -- | -- | | |
| 31 | THIAMIN | Fruit | 1 | 10 | 0.5974378588358942 | |
| 4 | THREONINE | Fruit | 65 | 3637 | 0.2574391545243345 | |
| 0 | TITANIUM | Fruit | -- | 140 | 2.411140632740012 | |
| 0 | TOMATIDA-3,5-DIENE | Shoot | -- | -- | | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|---|----------------|---------|----------|----------------------|--------------------|
| 2 | TOMATIDINE | Plant | -- | -- | | |
| 6 | TOMATINE | Flower | -- | -- | | |
| 6 | TOMATINE | Leaf | 6 | 8 | | |
| 0 | TOMATOSIDE-A | Seed | -- | -- | | |
| 2 | TRANS-ACONITIC-ACID | Fruit | -- | -- | | |
| 0 | TRANS-METHYL-6-HEPTADIENE-3,5-ON-2 | Plant | -- | -- | | |
| 0 | TRIACONTANE | Fruit | -- | -- | | |
| 0 | TRICODECAN-3-ONE | Leaf | -- | -- | | |
| 0 | TRIDECAN-2-ONE | Leaf | -- | -- | | |
| 0 | TRIDECAN-3-ONE | Leaf | -- | -- | | |
| 15 | TRIGONELLINE | Root | 14 | 14 | -0.497475071194002 | |
| 0 | TRIMETHYL-2,6,6-HYDROXY-2-CYCLOHEXANONE | Fruit | -- | -- | | |
| 4 | TRYPTAMINE | Fruit | -- | -- | | |
| 29 | TRYPTOPHAN | Fruit | 1 | 1157 | 0.43023114372368443 | |
| 11 | TYRAMINE | Fruit | -- | -- | | |
| 8 | TYROSINE | Fruit | 38 | 2479 | 0.02497639422190393 | |
| 2 | UBIQUINONE-10 | Tissue Culture | 60 | 60 | | |
| 3 | VALINE | Fruit | 1 | 3801 | -0.13452560212320389 | |
| 16 | VANADIUM | Fruit | -- | 6 | -0.6496341484486877 | |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|------------------|------------|---------|----------|---------------------|--------------------|
| 28 | VANILLIN | Plant | -- | -- | | |
| 2 | VIOLAXANTHIN | Fruit | -- | -- | | |
| 0 | VIT-B-6 | Fruit | -- | 9 | 0.13352756126001855 | |
| 0 | WATER | Fruit | 910000 | 982000 | 0.9192924875244552 | |
| 3 | XANTHOPHYLL | Fruit | -- | -- | | |
| 0 | YTTRIUM | Fruit | -- | 6 | | |
| 2 | ZEATIN | Fruit | -- | -- | | |
| 0 | ZEATIN-GLUCOSIDE | Flower | -- | -- | | |
| 0 | ZEATIN-RIBOSIDE | Flower | -- | -- | | |
| 5 | ZEAXANTHIN | Fruit | -- | -- | | |
| 0 | ZETA-CAROTENE | Fruit | -- | -- | | |
| 77 | ZINC | Fruit | 1 | 120 | 2.6986566422305542 | |
| 0 | ZIRCONIUM | Fruit | -- | 4 | 0.03855749503364986 | |