

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Rubus idaeus*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------|------------|---------|----------|----------------------|--|
| 30 | (+)-CATECHIN | Stem | | | | -- |
| 30 | (+)-CATECHIN | Pericarp | | | | -- |
| 30 | (+)-CATECHIN | Leaf | | | | -- |
| 30 | (+)-CATECHIN | Juice | | | | -- |
| 38 | (-)-EPICATECHIN | Plant | | | | -- |
| 38 | (-)-EPICATECHIN | Leaf | | | | -- |
| 38 | (-)-EPICATECHIN | Pericarp | | | | -- |
| 38 | (-)-EPICATECHIN | Stem | | | | -- |
| 38 | (-)-EPICATECHIN | Juice | | | | -- |
| 0 | 1-BETA-O-GALLOYLPEDUNCULAGIN | Leaf | | | | -- |
| 0 | 1-PENTANOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | 1-PENTEN-3-OL | Plant | | | | -- |
| 0 | 2-HEXEN-4-OLIDE | Plant | | | | -- |
| 0 | 3-METHYL-2-BUTEN-1-OL | Plant | | | | -- |
| 0 | 5-METHYL-FURFURAL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 16 | ACETIC-ACID | Plant | | | | -- |
| 0 | ACETOIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 7 | ALPHA-CAROTENE | Fruit | 0.13 | 0.6 | -0.46232287758038665 | -- |
| 0 | ALPHA-FURANCARBONIC-ACID | Plant | | | | -- |
| 32 | ALPHA-TOCOPHEROL | Fruit | 9.0 | 56.0 | -0.2596481602858355 | -- |
| 5 | ALUMINUM | Leaf | 66.0 | 392.0 | -0.3598774207421672 | -- |
| 112 | ASCORBIC-ACID | Fruit | 70.0 | 1870.0 | -0.16821802906976244 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------|------------|---------|----------|----------------------|---|
| 112 | ASCORBIC-ACID | Seed | | 300.0 | -0.15835200323963525 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 112 | ASCORBIC-ACID | Leaf | 620.0 | 3670.0 | -0.10339086235718767 | -- |
| 0 | ASH | Fruit | 3880.0 | 30815.0 | -0.6693626260182457 | Revised USDA data received 1993. |
| 0 | ASH | Leaf | 13520.0 | 80000.0 | -0.6845191217694889 | -- |
| 24 | BENZALDEHYDE | Plant | | | | -- |
| 20 | BENZOIC-ACID | Plant | | | | -- |
| 53 | BETA-CAROTENE | Leaf | 19.0 | 114.0 | -0.6414752460100303 | -- |
| 53 | BETA-CAROTENE | Fruit | 0.06 | 7.0 | -0.13726975525121177 | -- |
| 2 | BETA-CRYPTOXANTHIN | Fruit | | | | -- |
| 13 | BETA-IONONE | Plant | | | | -- |
| 0 | BETA-PHENYLETHYLALCOHOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 47 | BETA-SITOSTEROL | Seed Oil | | | | -- |
| 4 | BORON | Fruit | 1.0 | 13.0 | -0.5421662869530862 | 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). |
| 6 | BUTYRIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 102 | CAFFEIC-ACID | Plant | | | | -- |
| 102 | CAFFEIC-ACID | Fruit | | | | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| 28 | CALCIUM | Fruit | 220.0 | 1645.0 | -0.5102772768150714 | Revised USDA data received 1993. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------------------|------------|----------|----------|----------------------|--|
| 28 | CALCIUM | Leaf | 2045.0 | 12100.0 | -0.4330046318778217 | -- |
| 0 | CAPRONIC-ACID | Fruit | | | | -- |
| 5 | CAPRYLIC-ACID | Fruit | | | | -- |
| 0 | CARBOHYDRATES | Fruit | 115700.0 | 865370.0 | 0.44110745013750263 | Revised USDA data received 1993. |
| 0 | CARBOHYDRATES | Leaf | 133510.0 | 790000.0 | 1.4167610297591213 | -- |
| 24 | CHROMIUM | Leaf | 0.2 | 1.3 | -0.5356966871657832 | -- |
| 6 | CINNAMYL-ALCOHOL | Plant | | | | -- |
| 0 | CIS-HEXEN-3-OL | Plant | | | | -- |
| 23 | CITRIC-ACID | Fruit | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| 2 | COBALT | Leaf | 0.6 | 3.4 | -0.27867675528926233 | -- |
| 12 | COPPER | Fruit | 0.7 | 6.0 | -0.5307153602504487 | Revised USDA data received 1993. |
| 0 | CYANIDIN-3-GLUCOSIDE | Plant | | | | -- |
| 0 | CYANIDIN-3-GLUCOSYL-RUTINOSIDE | Plant | | | | -- |
| 19 | CYANIDIN-3-O-GLUCOSIDE | Fruit | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| 1 | CYANIDIN-3-RUTINOSIDE | Plant | | | | -- |
| 0 | CYANIDIN-3-SOPHOROSIDE | Plant | | | | -- |
| 0 | CYANIDIN-5-MONOGLYCOSIDE | Plant | | | | -- |
| 5 | CYANIN | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DAMASCENE | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|---------------------|------------|----------|----------|----------------------|--|
| 1 | DEXTROSE | Fruit | | 35000.0 | 1.0 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | DIACETYL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DIHYDRO-BETA-IONONE | Plant | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 51 | ELLAGIC-ACID | Leaf | | | | -- |
| 51 | ELLAGIC-ACID | Juice | 5.0 | 50.0 | | -- |
| 0 | EPOXY-BETA-IONONE | Plant | | | | -- |
| 24 | ETHANOL | Plant | | | | -- |
| 6 | ETHYL-ACETATE | Plant | | | | -- |
| 17 | FARNESOL | Plant | | | | -- |
| 0 | FAT | Seed | 145000.0 | 240000.0 | -0.13372552418655537 | -- |
| 0 | FAT | Leaf | 2873.0 | 17000.0 | -0.7863531000407186 | -- |
| 0 | FAT | Fruit | 5100.0 | 44130.0 | -0.3041906994801652 | Revised USDA data received 1993. |
| 61 | FERULIC-ACID | Fruit | | | | -- |
| 61 | FERULIC-ACID | Plant | | | | -- |
| 15 | FIBER | Leaf | | 82000.0 | -0.9835404944355358 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 15 | FIBER | Fruit | 30000.0 | 352280.0 | 1.9873569833760867 | Revised USDA data received 1993. |
| 0 | FIBER(CRUDE) | Leaf | | 82000.0 | -1.1842756430220331 | -- |
| 0 | FIBER(DIETARY) | Leaf | | 323000.0 | -0.6193479291932424 | -- |
| 0 | FLAVONOLS | Juice | | 122.0 | | -- |
| 13 | FORMIC-ACID | Fruit | | | | -- |
| 8 | FRUCTOSE | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-------------------------|------------|---------|----------|----------------------|---|
| 6 | FURFURAL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | GADOLEIC-ACID | Fruit | 40.0 | 300.0 | 1.0 | Revised USDA data received 1993. |
| 62 | GALLIC-ACID | Leaf | | | | -- |
| 62 | GALLIC-ACID | Juice | | | | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| 62 | GALLIC-ACID | Plant | | | | -- |
| 8 | GENTISIC-ACID | Plant | | | | -- |
| 35 | GERANIOL | Fruit | | | | -- |
| 7 | GLUCOSE | Fruit | | | | -- |
| 0 | HEXEN-2-ACID | Fruit | | | | -- |
| 0 | HEXEN-3-ACID | Fruit | | | | -- |
| 0 | HOMOPROTECATECHUIC-ACID | Plant | | | | -- |
| 0 | HYDROXYBENZOIC-ACID | Juice | | | | -- |
| 0 | HYDROXYCINNAMIC-ACID | Juice | | | | -- |
| 6 | IRON | Fruit | 5.0 | 45.0 | -0.34898531116184145 | Revised USDA data received 1993. |
| 6 | IRON | Leaf | 17.0 | 101.0 | -0.664569650794051 | -- |
| 3 | ISOAMYL-ALCOHOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2 | ISOBUTYRIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 22 | ISOQUERCITRIN | Fruit | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------------|------------|---------|----------|----------------------|--|
| 0 | ISOVALERIANIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 75 | KAEMPFEROL | Juice | | | | -- |
| 0 | KAEMPFEROL-3-BETA-GLUCURONIDE | Plant | | | | -- |
| 0 | KAEMPFEROL-3-GLUCURONIDE | Juice | 1.0 | 5.0 | | -- |
| 0 | KAEMPFEROL-3-O-BETA-D-GLUCURONIDE | Fruit | | 1.0 | | -- |
| 0 | KILOCALORIES | Leaf | | 2750.0 | -0.43212504723366724 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 0 | KILOCALORIES | Fruit | 490.0 | 3665.0 | 0.006755743707852334 | Revised USDA data received 1993. |
| 8 | LACTIC-ACID | Leaf | | | | -- |
| 0 | LAMBERTIANIN-A | Leaf | | | | -- |
| 0 | LAMBERTIANIN-B | Leaf | | | | -- |
| 0 | LAMBERTIANIN-C | Leaf | | | | -- |
| 0 | LAMBERTIANIN-D | Leaf | | | | -- |
| 1 | LEVULOSE | Fruit | | 35000.0 | 1.0 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 27 | LINOLEIC-ACID | Fruit | 2080.0 | 15555.0 | -0.13594241677819272 | Revised USDA data received 1993. |
| 27 | LINOLEIC-ACID | Seed Oil | | | | -- |
| 0 | LINOLENIC-ACID | Fruit | 1050.0 | 7855.0 | 0.1473004215517145 | Revised USDA data received 1993. |
| 0 | LINOLENIC-ACID | Seed Oil | | | | -- |
| 15 | LUTEIN | Fruit | 0.76 | 4.0 | -0.48918352740142235 | -- |
| 65 | MAGNESIUM | Fruit | 175.0 | 1400.0 | -0.33791055544330456 | Revised USDA data received 1993. |
| 65 | MAGNESIUM | Leaf | 539.0 | 3190.0 | -0.361322498820846 | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------|------------|---------|----------|----------------------|--|
| 15 | MALIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 11 | MALTOL | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | MANGANESE | Leaf | 25.0 | 146.0 | -0.21716694893797103 | -- |
| 14 | MANGANESE | Fruit | 10.0 | 80.0 | 0.12397207406698312 | Revised USDA data received 1993. |
| 18 | MANNITOL | Fruit | | | | -- |
| 13 | MUFA | Fruit | 530.0 | 3965.0 | -0.19628214752627327 | Revised USDA data received 1993. |
| 0 | N-HEPTACOSANE | Seed Oil | | | | -- |
| 1 | N-NONACOSANE | Seed Oil | | | | -- |
| 39 | NIACIN | Leaf | 65.0 | 382.0 | 3.4605317922989003 | -- |
| 39 | NIACIN | Fruit | 9.0 | 67.0 | 0.08424528986355267 | Revised USDA data received 1993. |
| 0 | O-PHTHALIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | O-PHTHALIC-ACID | Plant | | | | -- |
| 18 | OLEIC-ACID | Fruit | 490.0 | 3665.0 | -0.4524977786497885 | Revised USDA data received 1993. |
| 0 | ORGANIC-ACIDS | Plant | 15000.0 | 20000.0 | -1.0 | -- |
| 0 | OXYBENZOIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 25 | P-COUMARIC-ACID | Bark | | | | -- |
| 25 | P-COUMARIC-ACID | Leaf | | | | -- |
| 25 | P-COUMARIC-ACID | Juice | | | | -- |
| 25 | P-COUMARIC-ACID | Plant | | | | -- |
| 8 | P-CRESOL | Plant | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------------------|------------|---------|----------|-----------------------|--|
| 0 | P-ETHYL-PHENOL | Plant | | | | -- |
| 13 | P-HYDROXY-BENZOIC-ACID | Plant | | | | -- |
| 0 | P-HYDROXYPHENYLETHYLALCOHOL | Plant | | | | -- |
| 13 | PALMITIC-ACID | Fruit | 130.0 | 970.0 | -0.35043476151081787 | Revised USDA data received 1993. |
| 11 | PANTOTHENIC-ACID | Fruit | 2.4 | 18.0 | -0.006662132557618176 | Revised USDA data received 1993. |
| 24 | PECTIN | Fruit | | 14500.0 | -0.4580948328310023 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 24 | PECTIN | Leaf | 8450.0 | 50000.0 | 0.4345814175326895 | -- |
| 9 | PEDUNCULAGIN | Leaf | | | | -- |
| 0 | PELARGONIN-3,2-GLUCOSYLROUTINOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PELARGONIN-3,5-DIGLYCOSIDE | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | PHOSPHORUS | Fruit | 110.0 | 955.0 | -0.6867540372783977 | Revised USDA data received 1993. |
| 4 | PHOSPHORUS | Leaf | 395.0 | 2340.0 | -0.4841533669170441 | -- |
| 14 | POTASSIUM | Leaf | 2265.0 | 13400.0 | -0.7482125557868814 | -- |
| 14 | POTASSIUM | Fruit | 1490.0 | 11635.0 | -0.555747708167046 | Revised USDA data received 1993. |
| 4 | PROCYANIDIN-B-4 | Stem | | | | -- |
| 4 | PROCYANIDIN-B-4 | Pericarp | | | | -- |
| 4 | PROCYANIDIN-B-4 | Plant | | | | -- |
| 4 | PROCYANIDIN-B-4 | Leaf | | | | -- |
| 0 | PROCYANIDIN-B-5 | Stem | | | | -- |
| 0 | PROCYANIDIN-B-5 | Pericarp | | | | -- |
| 0 | PROCYANIDIN-B-5 | Leaf | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|-----------------------------------|------------|---------|----------|---------------------|--|
| 0 | PROCYANIDIN-B-8 | Leaf | | | | -- |
| 0 | PROCYANIDIN-B-8 | Stem | | | | -- |
| 0 | PROCYANIDIN-B-8 | Pericarp | | | | -- |
| 0 | PROCYANIDIN-G | Stem | | | | -- |
| 0 | PROCYANIDIN-G | Pericarp | | | | -- |
| 0 | PROCYANIDIN-G | Leaf | | | | -- |
| 6 | PROPIONIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | PROTEIN | Leaf | 19097.0 | 113000.0 | -0.9860748742162907 | -- |
| 0 | PROTEIN | Fruit | 8800.0 | 70530.0 | -0.5223902238389811 | Revised USDA data received 1993. |
| 43 | PROTOCATECHUIC-ACID | Plant | | | | -- |
| 43 | PROTOCATECHUIC-ACID | Juice | | | | -- |
| 4 | PUFA | Fruit | 3130.0 | 23410.0 | 0.8363439902360195 | Revised USDA data received 1993. |
| 176 | QUERCETIN | Juice | | | | -- |
| 0 | QUERCETIN-3-O-GALACTOSIDE | Juice | 1.0 | 6.0 | | -- |
| 0 | QUERCETIN-3-BETA-GLUCURONIDE | Plant | | | | -- |
| 0 | QUERCETIN-3-GLUCURONIDE | Fruit | | 1.0 | | -- |
| 0 | QUERCETIN-3-GLUCURONIDE | Juice | 10.0 | 90.0 | | -- |
| 0 | QUERCETIN-3-O-ALPHA-L-GALACTOSIDE | Fruit | | | | -- |
| 0 | QUERCETIN-3-O-BETA-D-GLUCORONIDE | Fruit | | 4.0 | | -- |
| 0 | QUERCETIN-3-SOPHOROSIDE | Juice | 1.0 | 80.0 | | -- |
| 0 | QUERCETIN-3-XYLOSYLGLUCURONIDE | Juice | 1.0 | 6.0 | | -- |
| 15 | RIBOFLAVIN | Leaf | | | | -- |
| 15 | RIBOFLAVIN | Fruit | 0.9 | 6.7 | 0.36209168106597706 | Revised USDA data received 1993. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|----------------|------------|---------|----------|----------------------|--|
| 87 | RUTIN | Plant | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| 34 | SALICYLIC-ACID | Plant | | | | -- |
| 34 | SALICYLIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | SANGUIIN-H-2 | Leaf | | | | -- |
| 5 | SANGUIIN-H-6 | Leaf | | | | -- |
| 60 | SELENIUM | Leaf | 0.4 | 2.5 | -0.19046045138655818 | -- |
| 0 | SFA | Fruit | 190.0 | 1420.0 | -0.3479590827314696 | Revised USDA data received 1993. |
| 4 | SILICON | Leaf | 0.2 | 1.3 | -0.40932526208989356 | -- |
| 1 | SODIUM | Leaf | 13.0 | 77.0 | -0.6336091719663351 | -- |
| 1 | SODIUM | Fruit | 0.0 | 1.0 | -0.18385595758003662 | Revised USDA data received 1993. |
| 11 | SORBITOL | Fruit | | | | -- |
| 8 | STEARIC-ACID | Fruit | 130.0 | 970.0 | -0.2148929675183572 | Revised USDA data received 1993. |
| 7 | SUCCINIC-ACID | Leaf | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 7 | SUCCINIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 14 | SUCROSE | Fruit | | | | -- |
| 0 | SUGARS | Leaf | 10140.0 | 60000.0 | -0.7162601683395223 | -- |
| 35 | TANNIN | Leaf | 16900.0 | 120000.0 | 0.11560400756237017 | -- |
| 35 | TANNIN | Fruit | | 6200.0 | -0.8518650257063927 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------------|------------|---------|----------|----------------------|--|
| 0 | TETRACOSAN-1-OL | Seed Oil | | | | -- |
| 0 | THEASPIRANE | Plant | | | | -- |
| 31 | THIAMIN | Leaf | | 3.4 | -1.0221493221185618 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| 31 | THIAMIN | Fruit | 0.3 | 2.2 | -0.4010034158314492 | Revised USDA data received 1993. |
| 0 | THIAMINE | Leaf | 0.6 | 3.4 | -0.43873738648145555 | -- |
| 4 | TIN | Leaf | 4.0 | 22.0 | 0.7648770558118653 | -- |
| 93 | TOCOPHEROL | Fruit | 3.0 | 12.0 | -0.6276472611238401 | USDA's Ag Handbook 8 and sequelae) |
| 0 | TRANS-2-PHENYLBUTANONE | Plant | | | | -- |
| 1 | VALERIANIC-ACID | Fruit | | | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 24 | VANILLIC-ACID | Plant | | | | -- |
| 0 | VIT-B-6 | Fruit | 0.5 | 4.3 | -0.6565905620231853 | Revised USDA data received 1993. |
| 0 | WATER | Fruit | | 865700.0 | 0.4136092014194993 | Revised USDA data received 1993. |
| 0 | WATER | Leaf | | 831000.0 | 0.11655419260711948 | -- |
| 10 | XYLITOL | Fruit | | 0.4 | | -- |
| 3 | XYLOSE | Fruit | | | | -- |
| 77 | ZINC | Fruit | 4.0 | 37.0 | 0.2015288171723333 | Revised USDA data received 1993. |
| 77 | ZINC | Leaf | | | | -- |