

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Brassica rapa

| Activities Count | Chemical  | Plant Part | Low PPM | High PPM | StdDev               | Refernce Citation  |
|------------------|---|------------|---------|----------|----------------------|--|
| 0                | (+)-CYSTEINE  | Root       |         |          |                      | --   |
| 0                | (+)-S-METHYL-L-CYSTEINE-SULFOXIDE                             | Root       |         |          |                      | --   |
| 0                | 4ALPHA,7ALPHA,24-TRIMETHYL-5ALPHA-CHOLESTA-8,24-DIEN-3BETA-OL | Plant      |         |          |                      | --   |
| 3                | ALANINE   | Root       | 350.0   | 4305.0   | 0.42495665148921485  | --   |
| 0                | ALLANTOIC-ACID  | Root       |         |          |                      | --   |
| 12               | ALLANTOIN   | Root       |         |          |                      | --   |
| 5                | ALUMINUM  | Root       | 2.0     | 10.0     | -0.30711464100795266 | --   |
| 14               | ARGININE  | Root       | 240.0   | 2950.0   | -0.39104987036781336 | --   |
| 2                | ARSENIC   | Root       |         |          |                      | --   |
| 112              | ASCORBIC-ACID   | Root       | 210.0   | 2580.0   | 0.8288691939727557   | --   |
| 0                | ASH   | Root       | 7000.0  | 86000.0  | 0.5265977228708666   | --   |
| 3                | ASPARTIC-ACID   | Root       | 630.0   | 7750.0   | -0.28661565537184647 | --   |
| 53               | BETA-CAROTENE   | Root       |         |          |                      | --   |
| 47               | BETA-SITOSTEROL   | Root       | 50.0    | 500.0    | -0.26375908041164936 | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 47               | BETA-SITOSTEROL   | Leaf       | 90.0    | 900.0    | -0.5910886856520599  | 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   | Root       | 2.0     | 20.0     | -0.14974023395860875 | --   |
| 0                | BRASSICASTEROL  | Plant      |         |          |                      | --   |
| 0                | BROMINE   | Root       |         |          |                      | --   |
| 3                | CADMIUM   | Root       | 0.01    | 0.1      | -0.7647786809084502  | --   |
| 28               | CALCIUM   | Root       | 300.0   | 3690.0   | -0.40661907011894605 | --   |
| 2                | CAMPESTEROL   | Root       | 10.0    | 100.0    | -0.2945736885682078  | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |

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|------------------|----------------|------------|---------|----------|----------------------|--|
| 2                | CAMPESTEROL    | Leaf       | 20.0    | 200.0    | 0.2661820241306193   | 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    | Plant      |         |          |                      |  |
| 0                | CARBOHYDRATES  | Root       | 62300.0 | 766290.0 | -0.818168341219231   | --   |
| 24               | CHROMIUM       | Root       | 0.005   | 0.05     | -0.5499725614642089  | --   |
| 2                | COBALT         | Root       |         |          |                      | --   |
| 12               | COPPER         | Root       | 0.4     | 4.0      | -0.8547042082668113  | --   |
| 2                | CYSTINE        | Root       | 50.0    | 615.0    | -0.5584829099113838  | --   |
| 0                | FAT            | Root       | 1000.0  | 12300.0  | -0.35282204829047864 | --   |
| 15               | FIBER          | Root       | 9000.0  | 110700.0 | 0.5016439840195641   | --   |
| 0                | FLUORINE       | Root       |         |          |                      | --   |
| 15               | FOLACIN        | Root       | 0.14    | 2.0      | -0.5271708591989388  | --   |
| 8                | GLUTAMIC-ACID  | Root       | 1300.0  | 15990.0  | 0.06502620540194483  | --   |
| 12               | GLYCINE        | Root       | 250.0   | 3075.0   | 0.2189061152421515   | --   |
| 7                | HISTIDINE      | Root       | 140.0   | 1720.0   | -0.07022870333547145 | --   |
| 6                | IRON           | Root       | 2.0     | 37.0     | -0.38789995702739277 | --   |
| 3                | ISOLEUCINE     | Root       | 360.0   | 4425.0   | 0.49779955957176264  | --   |
| 0                | KILOCALORIES   | Root       | 270.0   | 3321.0   | -0.10022495414603093 | --   |
| 0                | LEAD           | Root       | 0.02    | 0.2      | -0.6446053830644467  | --   |
| 2                | LEUCINE        | Root       | 330.0   | 4060.0   | -0.17067414205242645 | --   |
| 27               | LINOLEIC-ACID  | Root       | 120.0   | 1475.0   | -0.6136111513494188  | --   |
| 0                | LINOLENIC-ACID | Root       | 400.0   | 4920.0   | 1.0142840145083611   | --   |
| 16               | LYCOPENE       | Root       |         |          |                      | --   |
| 4                | LYSINE         | Root       | 360.0   | 4425.0   | 0.630955263794971    | --   |
| 65               | MAGNESIUM      | Root       | 110.0   | 2000.0   | -0.29880118871600586 | --   |
| 14               | MANGANESE      | Root       | 0.6     | 7.0      | -0.4622868527944253  | --   |
| 1                | MERCURY        | Root       | 0.001   | 0.01     | -0.4761926805350732  | --   |

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|------------------|------------------|------------|---------|----------|----------------------|--|
| 15               | METHIONINE       | Root       | 110.0   | 1350.0   | 0.46965494458443574  | --   |
| 2                | MOLYBDENUM       | Root       | 0.1     | 1.0      | -0.17967105137688194 | --   |
| 13               | MUFA             | Root       | 60.0    | 740.0    | -0.6537638959737779  | --   |
| 39               | NIACIN           | Root       | 4.0     | 49.0     | -0.03590584323186845 | --   |
| 3                | NICKEL           | Root       | 0.01    | 0.1      | -1.1131938478423264  | --   |
| 0                | NITROGEN         | Root       | 1800.0  | 18000.0  | -1.2597103584581741  | --   |
| 18               | OLEIC-ACID       | Root       | 60.0    | 740.0    | -0.44547408850895587 | --   |
| 13               | PALMITIC-ACID    | Root       | 100.0   | 1230.0   | -0.34362996359528225 | --   |
| 2                | PALMITOLEIC-ACID | Root       | 10.0    | 120.0    | -0.6762068642190665  | --   |
| 11               | PANTOTHENIC-ACID | Root       | 2.0     | 25.0     | 1.085330921101074    | --   |
| 7                | PHENYLALANINE    | Root       | 170.0   | 2090.0   | -0.7214080672068021  | --   |
| 4                | PHOSPHORUS       | Root       | 270.0   | 5000.0   | 0.2604463852369282   | --   |
| 5                | PHYLLOQUINONE    | Root       |         | 0.002    | -0.9999999999999998  | --   |
| 2                | PHYTOSTEROLS     | Root       | 70.0    | 700.0    | -0.5116606379373904  | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 2                | PHYTOSTEROLS     | Leaf       | 120.0   | 1200.0   | -0.4230551689073448  | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 14               | POTASSIUM        | Root       | 1700.0  | 30000.0  | 1.0413262881316638   | --   |
| 0                | PROTEIN          | Root       | 9000.0  | 110700.0 | -0.08661521723354307 | --   |
| 4                | PUFA             | Root       | 530.0   | 6520.0   | 0.566707691896107    | --   |
| 0                | RAPIN            | Root       |         |          |                      | --   |
| 15               | RIBOFLAVIN       | Root       | 0.3     | 4.0      | -0.0163136920018201  | --   |
| 0                | RUBIDIUM         | Root       | 1.0     | 10.0     | -0.40996428405019386 | --   |
| 60               | SELENIUM         | Root       |         |          |                      | --   |
| 1                | SERINE           | Root       | 290.0   | 3565.0   | 0.11378761174513131  | --   |
| 0                | SFA              | Root       | 110.0   | 1350.0   | -0.6021688831618597  | --   |

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|------------------|--------------|------------|----------|----------|----------------------|--|
| 4                | SILICON      | Root       | 120.0    | 1200.0   | 5.169525774274919    | --   |
| 1                | SODIUM       | Root       | 400.0    | 11600.0  | 4.888361510042393    | --   |
| 8                | STEARIC-ACID | Root       | 10.0     | 120.0    | -0.5966080781280669  | --   |
| 12               | STIGMASTEROL | Root       |          | 0.0      | -0.8132428087578462  | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 12               | STIGMASTEROL | Leaf       |          | 0.0      | -0.9159783131731405  | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| 14               | SULFUR       | Root       | 510.0    | 5100.0   | 0.70172285513554     | --   |
| 31               | THIAMIN      | Root       | 0.4      | 5.0      | -0.1489566935533975  | --   |
| 4                | THREONINE    | Root       | 250.0    | 3075.0   | -0.18981089586320535 | --   |
| 29               | TRYPTOPHAN   | Root       | 90.0     | 1100.0   | 0.8377262466980601   | --   |
| 8                | TYROSINE     | Root       | 130.0    | 1600.0   | -0.66156784685506    | --   |
| 3                | VALINE       | Root       | 300.0    | 3690.0   | -0.22201036330648405 | --   |
| 0                | VIT-B-6      | Root       | 1.0      | 11.0     | 0.41907564596559793  | --   |
| 0                | WATER        | Root       | 900000.0 | 921120.0 | 0.9940615249767587   | --   |
| 77               | ZINC         | Root       | 2.0      | 23.0     | -0.05159916005303352 | --   |