

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Harpagophytum procumbens*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------|------------|---------|----------|----------------------|--|
| 1 | N-NONACOSANE | Tuber | | | | -- |
| 1 | IRIDOIDS | Root | 1000.0 | 30000.0 | | -- |
| 1 | IRIDOIDS | Leaf | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| 1 | STACHYOSE | Root | 6000.0 | 460000.0 | 0.31750232929843175 | -- |
| 1 | GALACTOSE | 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. |
| 1 | STACHYOSE | Tuber | | | | -- |
| 1 | SODIUM | Root | 136.0 | 718.0 | -0.17846091709932732 | -- |
| 1 | ACETOSIDE | Root | | | | Abstract (See species file) |
| 1 | SERINE | Root | | 450.0 | -1.6398861309683237 | -- |
| 1 | RAFFINOSE | Root | 3000.0 | 24000.0 | -0.8101404467277987 | -- |
| 1 | GALACTOSE | Root | | 3600.0 | -1.0 | -- |
| 1 | RAFFINOSE | Tuber | | | | -- |
| 2 | COBALT | Root | 3.0 | 14.5 | -0.23048536047099405 | -- |
| 2 | LEUCINE | Root | | | | -- |
| 2 | CAMPESTEROL | Tuber | | | | -- |
| 2 | N-HEXACOSANE | Tuber | | | | -- |
| 3 | ASPARTIC-ACID | Root | | 160.0 | -1.2748319398126813 | -- |
| 3 | VALINE | Root | | | | -- |
| 3 | N-HENTRIACONTANE | Tuber | | | | -- |
| 3 | ALANINE | Root | | 60.0 | -1.665072432864305 | -- |
| 4 | LYSINE | Root | | | | -- |
| 4 | TIN | Root | 5.0 | 24.0 | 0.7637747609302243 | -- |
| 4 | SILICON | Root | 0.8 | 4.3 | -0.32315188483809987 | -- |

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|------------------|---------------|----------------|---------|----------|-----------------------|-------------------|
| 4 | PHOSPHORUS | Root | 134.0 | 707.0 | -0.49387369829927447 | -- |
| 5 | DAUCOSTEROL | Tuber | | | | -- |
| 5 | DAUCOSTEROL | Root | | | | -- |
| 5 | ALUMINUM | Root | 178.0 | 939.0 | 0.1913466692650815 | -- |
| 5 | KAEMPFERIDE | Tuber | | | | -- |
| 6 | HARPAGOSIDE | Stem | | | | -- |
| 6 | HARPAGOSIDE | Tuber | | | | -- |
| 6 | HARPAGOSIDE | Leaf | | | | -- |
| 6 | HARPAGOSIDE | Fruit | | | | -- |
| 6 | HARPAGOSIDE | Flower | | | | -- |
| 6 | HARPAGOSIDE | Tissue Culture | | | | -- |
| 6 | HARPAGIDE | Tuber | | | | -- |
| 6 | IRON | Root | 55.0 | 290.0 | -0.020343963862057824 | -- |
| 6 | HARPAGOSIDE | Root | 1000.0 | 30000.0 | | -- |
| 6 | HARPAGIDE | Root | | 546.7 | | -- |
| 7 | HISTIDINE | Root | | | | -- |
| 7 | GLUCOSE | Tuber | | | | -- |
| 7 | GLUCOSE | Root | | 2500.0 | -0.9499312356047811 | -- |
| 7 | PHENYLALANINE | Root | | | | -- |
| 8 | STEARIC-ACID | Tuber | | | | -- |
| 8 | GLUTAMIC-ACID | Root | | | | -- |
| 8 | FRUCTOSE | Root | | 2700.0 | -0.529803942677962 | -- |
| 8 | FRUCTOSE | Tuber | | | | -- |
| 10 | SQUALENE | Tuber | | | | -- |
| 12 | STIGMASTEROL | Tuber | | | | -- |
| 12 | GLYCINE | Root | | | | -- |
| 13 | PALMITIC-ACID | Tuber | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|------------------|------------|---------|----------|----------------------|-----------------------------|
| 14 | MANGANESE | Root | 2.0 | 7.7 | -0.4539282012059865 | -- |
| 14 | SUCROSE | Tuber | | | | -- |
| 14 | SUCROSE | Root | | 27300.0 | -0.9841312900669343 | -- |
| 14 | ARGININE | Root | | 840.0 | -0.4965861004016072 | -- |
| 14 | POTASSIUM | Root | 1883.0 | 9910.0 | -0.4297324351495235 | -- |
| 15 | FISETIN | Tuber | | | | -- |
| 15 | RIBOFLAVIN | Root | | | | -- |
| 15 | FISETIN | Root | | | | Abstract (See species file) |
| 18 | CINNAMIC-ACID | Root | | | | -- |
| 18 | CINNAMIC-ACID | Tuber | | | | -- |
| 18 | OLEIC-ACID | Tuber | | | | -- |
| 20 | VERBASCOSIDE | Plant | | | | -- |
| 20 | VERBASCOSIDE | Root | | | | -- |
| 24 | CHROMIUM | Root | 0.2 | 1.2 | -0.32076409255495114 | -- |
| 27 | LINOLEIC-ACID | Tuber | | | | -- |
| 28 | CALCIUM | Root | 1151.0 | 6060.0 | -0.1470613057174478 | -- |
| 39 | NIACIN | Root | 15.0 | 79.0 | 0.8335630063290778 | -- |
| 47 | BETA-SITOSTEROL | Tuber | | | | -- |
| 53 | BETA-CAROTENE | Root | | | | -- |
| 60 | SELENIUM | Root | 0.3 | 1.5 | -0.25574803129140883 | -- |
| 64 | OLEANOLIC-ACID | Root | | | | -- |
| 64 | OLEANOLIC-ACID | Tuber | | | | -- |
| 65 | MAGNESIUM | Root | 1034.0 | 5440.0 | 1.5316389141216484 | -- |
| 75 | KAEMPFEROL | Root | | | | Abstract (See species file) |
| 75 | KAEMPFEROL | Tuber | | | | -- |
| 77 | ZINC | Root | 0.3 | 1.8 | -0.9801103054105488 | -- |
| 77 | CHLOROGENIC-ACID | Root | | | | -- |

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|------------------|------------------|------------|---------|----------|--------|-------------------|
| 77 | CHLOROGENIC-ACID | Tuber | | | | -- |
| 78 | LUTEOLIN | Tuber | | | | -- |
| 78 | LUTEOLIN | Root | | | | -- |
| 89 | URSOLIC-ACID | Root | | | | -- |
| 89 | URSOLIC-ACID | Tuber | | | | -- |
| 102 | CAFFEIC-ACID | Root | | | | -- |
| 112 | ASCORBIC-ACID | Root | | | | -- |