

P Ononis spinosa

Common Name(s)

Hauhechel (Ger.), Restharrow, Spiny Restharrow

How Used

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| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference Citation |
|---------------------|---|---------|----------|--------|---|
| 1 | (-)-MAACKIAIN-3-O-GLUCOSIDE | Root | -- | -- | |
| 5 | 24-METHYLENE-CYCLOARTANOL | Root | -- | 220 | |
| 0 | 5-DEOXYISOFLAVONE | Shoot | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | 7-DEMETHOXY-7-D-GLUCOSYLOXY-HOMOPTEROCARPIN | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | ALPHA-ONOCERIN | Shoot | -- | 500 | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|--------------------------------------|---------|----------|--------|---------------------|---|
| 0 | ALPHA-ONOCERIN | Root | -- | 4100 | | |
| 2 | ALPHA-SPINASTEROL | Root | -- | 180 | | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| 36 | ANETHOLE | Root | -- | -- | | |
| 101 | APIGENIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 1 | BIOCHANIN | Root | -- | -- | | |
| 32 | BIOCHANIN-A | Root | 0.8 | 7 | -1 | |
| 0 | BIOCHANIN-A-7-GLUCOSIDE | Root | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 0 | BIOCHANIN-A-7-GLUCOSIDE-6''-MALONATE | Root | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 2 | CAMPESTEROL | Root | -- | 22 | -1.5254708872282197 | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 19 | CARVONE | Root | -- | -- | | |
| 1 | CHOLESTEROL | Root | -- | 68 | | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|-----------------------------------|---------|----------|--------|---------------------|---|
| 18 | CINNAMIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 4 | COSMOSIIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | CYCLITE | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 7 | CYCLOARTENOL | Root | -- | 780 | | |
| 0 | D-INOSITOL | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | D-ODONITOL | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | D-PINITOL | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | DIHYDROFORMONONETIN-7-O-GLUCOSIDE | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | EO | Root | 200 | 2000 | -0.5605870943160192 | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|----------------------------|---------|----------|--------|---------------------|---|
| 61 | FERULIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 16 | FORMONONETIN | Root | 32 | 59 | -0.7271457958131935 | |
| 0 | FORMONONETIN-7-O-GLUCOSIDE | Root | -- | -- | | |
| 62 | GALLIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 81 | GENISTEIN | Root | 17 | 38 | 1 | |
| 8 | GENTISIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | HOMOPROTOCATECHUIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | HOMOPTERIN-7-O-GLUCOSIDE | Root | -- | -- | | |
| 30 | HYPEROSIDE | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |

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|---------------------|--------------------------|---------|----------|--------|-----------|---|
| 2 | JACEIDIN | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 75 | KAEMPFEROL | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | L-LEUCANTHENITOL | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 78 | LUTEOLIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | LUTEOLIN-7-O-D-GLUCOSIDE | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | MEDICARPIN-3-O-GLUCOSIDE | Root | -- | -- | | |
| 63 | MENTHOL | Root | -- | -- | | |

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|---------------------|------------------------|---------|----------|--------|-----------|---|
| 0 | MYO-INOSITOL | Leaf | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 13 | MYRICITRIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 1 | ONOCOL | Root | -- | -- | | |
| 0 | ONONE | Plant | -- | -- | | |
| 0 | ONONETIN-4-O-GLUCOSIDE | Root | -- | -- | | |
| 1 | ONONIDE | Plant | -- | -- | | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| 2 | ONONIN | Root | -- | -- | | |
| 0 | ONONIN-6''-MALONATE | Root | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 0 | ONONIN-6-MALONYLESTER | Root | -- | -- | | |
| 0 | ONONINE | Plant | -- | -- | | |
| 0 | ONOSONE | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

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|---------------------|------------------------|---------|----------|--------|---|
| 0 | ONOZERIN | Plant | -- | -- | |
| 25 | P-COUMARIC-ACID | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 13 | P-HYDROXY-BENZOIC-ACID | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | P-HYDROXYPHENYLACETIC | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | P-HYDROXYPHENYLACTIC | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 4 | PENDULETIN | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 2 | PHYTOSTEROLS | Plant | -- | 1000 | -0.2345887485886807 |

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|---------------------|--------------------------------|---------|----------|--------|-----------|---|
| 43 | PROTOCATECHUIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | PSEUDOBAPTIGENIN-7-O-GLUCOSIDE | Root | -- | -- | | |
| 0 | PSEUDOONONINE | Plant | -- | -- | | |
| 176 | QUERCETIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 44 | QUERCITRIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | RESIN | Plant | -- | -- | | |
| 2 | RHOIFOLIN | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 4 | RUTOSIDE | Shoot | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |

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|---------------------|----------------|---------|----------|--------|---|
| 34 | SALICYLIC-ACID | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | SEQUOITOL | Plant | -- | -- | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 9 | SINAPIC-ACID | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 0 | SITOSTEROL | Root | -- | 170 | |
| 0 | SPINOSINE | Root | -- | -- | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | STEROLS | Root | -- | -- | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 12 | STIGMASTEROL | Root | -- | 555 | 2.346363483581003 |
| 6 | SYRINGIC-ACID | Root | -- | -- | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 35 | TANNIN | Plant | -- | 5000 | -1.148043587547003 |
| 5 | TECTORIGENIN | Root | -- | -- | |

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|---------------------|----------------|---------|----------|--------|-----------|---|
| 8 | TRANS-ANETHOLE | Root | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 2 | TRIFOLIRHIZIN | Root | -- | -- | | |
| 24 | VANILLIC-ACID | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| 18 | VITEXIN | Root | -- | -- | | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |