

C SCOPOLETIN

Chemid

SCOPOLETIN

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aesculus hippocastanum	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ailanthus altissima	Plant	--	--		--
Allium ampeloprasum	Plant	--	--		--
Althaea officinalis	Leaf	--	--		--
Althaea officinalis	Flower	--	--		--
Althaea officinalis	Root	--	--		--
Althaea officinalis	Shoot	--	--		--
Anethum graveolens	Fruit	--	--		--
Anethum graveolens	Seed	--	--		--
Anethum graveolens	Shoot	--	2		--
Anethum graveolens	Root	--	--		--
Anethum graveolens	Seed Essent. Oil	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Angelica archangelica	Tissue Culture	--	--		--
Angelica archangelica	Root	--	--		--
Angelica dahurica	Root	--	--		--
Angelica sinensis	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Apium graveolens	Plant	--	--		--
Apium graveolens	Leaf	--	--		--
Artemisia abrotanum	Plant	--	--		--
Artemisia annua	Plant	--	--		--
Artemisia capillaris	Bud	--	--		--
Artemisia dracunculus	Shoot	--	--		--
Artemisia dracunculus	Leaf	--	--		--
Artemisia dracunculus	Plant	--	--		--
Artemisia vulgaris	Plant	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Atropa bella-donna	Root	--	--		--
Avena sativa	Root	10	10	-1	--
Avena sativa	Sprout Seedling	--	--		--
Azadirachta indica	Plant	--	--		--
Baptisia tinctoria	Plant	--	--		--
Brunfelsia uniflorus	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Capsicum annuum	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Capsicum frutescens	Fruit	--	--		--
Carum carvi	Root	--	--		--
Carum carvi	Plant	--	--		Wealth of India.
Casimiroa edulis	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Centaurea cyanus	Shoot	--	--		Jim Duke's personal files.
Chamaemelum nobile	Plant	--	--		--
Chenopodium album	Plant	--	--		--
Cichorium intybus	Flower	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Cichorium intybus	Plant	--	--		--
Citrus limon	Shoot	--	--		Jim Duke's personal files.
Citrus limon	Leaf	--	--		Jim Duke's personal files.
Citrus paradisi	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coffea arabica	Seed	--	--		--
Coriandrum sativum	Fruit	--	--		--
Coriandrum sativum	Shoot	--	--		--
Cynara cardunculus	Leaf	--	--		Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Datura innoxia	Plant	--	--		--
Datura stramonium	Plant	--	--		--
Daucus carota	Root	--	--		--
Duboisia myoporoides	Shoot	--	--		Plouvier, V. 1987. Occurrence and distribution of syringoside, skimmin and similar coumarin glycosides and loganin in several botanical groups. C. R. Acad. Sci. Ser. III, 305(6): 183-186.
Eleutherococcus senticosus	Stem Bark	--	--		--
Ficus carica	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.
Foeniculum vulgare	Fruit	--	--		--
Foeniculum vulgare	Seed	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Gelsemium sempervirens	Root	--	--		--
Glehnia littoralis	Rhizome	--	--		--
Glehnia littoralis	Root	--	--		--
Glycyrrhiza uralensis	Shoot	--	2		--
Helianthus annuus	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Hibiscus sabdariffa	Root Bark	--	--		--
Hordeum vulgare	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hordeum vulgare	Protoplast	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hypericum perforatum	Plant	--	--		--
Inula helenium	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Inula helenium	Shoot	--	--		--
Ipomoea purga	Tuber	--	--		--
Lawsonia inermis	Leaf	--	--		--
Lycium barbarum	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Lycium chinense	Leaf	--	30		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.
Lycium chinense	Fruit	9	19	-0.5268724923896982	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.
Mandragora officinarum	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Medicago sativa	Plant	--	--		--
Medicago sativa	Fruit	120	120	1.4000118189449853	--
Melia azedarach	Leaf	--	--		--
Menyanthes trifoliata	Plant	--	--		--
Menyanthes trifoliata	Shoot	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Morinda citrifolia	Fruit	--	0.85	-0.8731393265552875	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Morus alba	Leaf	--	--		--
Nicotiana tabacum	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Passiflora incarnata	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Pimpinella anisum	Fruit	--	--		--
Pimpinella anisum	Leaf	--	--		--
Pimpinella anisum	Seed	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Pimpinella anisum	Tissue Culture	25000	25000		--
Polygonum multiflorum	Plant	--	--		--
Prunella vulgaris	Plant	--	--		--
Prunella vulgaris	Shoot	--	--		--
Prunus serotina	Bark	--	--		--
Quercus rubra	Wood	--	--		--
Rhododendron dauricum	Plant	--	--		--
Ruta graveolens	Plant	--	--		--
Scopolia carniolica	Rhizome	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Simaba multiflora	Wood	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Skimmia arborescens	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Solanum melongena	Fruit	--	--		--
Solanum tuberosum	Tuber Epidermis	--	--		--
Sonchus oleraceus	Plant	--	--		--
Sterculia urens	Bark	--	--		--
Taraxacum officinale	Flower	--	--		--
Urtica dioica	Flower	--	--		--
Urtica dioica	Plant	1	10		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.
Urtica dioica	Root	3	36	1	--
Vaccinium corymbosum	Plant	--	--		--
Viburnum opulus	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Viburnum opulus	Root Bark	7.5	7.5	-1	--
Viburnum prunifolium	Root Bark	4	90	1	--
Viburnum prunifolium	Fruit Juice	--	--		--
Viola odorata	Plant	--	--		--
Withania somnifera	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zizyphus jujuba	Plant	--	--		--
