

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Cichorium intybus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
19	INULIN	Root	80000.0	850000.0	2.568442619517879	--
8	FRUCTOSE	Root	45000.0	220000.0	1.999334825861607	--
15	FIBER	Plant	9000.0	153000.0	-0.5161042249299459	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	SUCROSE	Root		140000.0	0.1611945921135931	--
15	FIBER	Root	19500.0	97500.0	0.20849392887813434	--
1	CELLULOSE	Root		50000.0	-1.0	--
14	POTASSIUM	Leaf	1820.0	37128.0	0.2995628765550062	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Leaf	790.0	19900.0	0.09995100214309341	--
14	ARGININE	Leaf	660.0	14892.0	-0.29705091845608234	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Root	2900.0	14500.0	-0.09363688811813217	--
87	RUTIN	Leaf		14000.0	-0.1353936273578098	--
3	ISOLEUCINE	Leaf	540.0	12240.0	0.045339706929741146	USDA's Ag Handbook 8 and sequelae)
7	GLUCOSE	Root		11000.0	-0.4327088902399002	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	VALINE	Leaf	410.0	9180.0	-0.9848461873827702	USDA's Ag Handbook 8 and sequelae)
2	LEUCINE	Leaf	390.0	8976.0	-1.160783880324028	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Leaf	440.0	8030.0	-1.576432461803007	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Leaf	350.0	7956.0	-1.1182801972380008	USDA's Ag Handbook 8 and sequelae)
27	LINOLEIC-ACID	Leaf	370.0	7548.0	-0.10687088053184475	USDA's Ag Handbook 8 and sequelae)
87	RUTIN	Seed		6400.0	0.07536225897017279	--
4	THREONINE	Leaf	250.0	5712.0	-1.367011082098785	USDA's Ag Handbook 8 and sequelae)
7	PHENYLALANINE	Leaf	220.0	4896.0	-1.3885269608474589	USDA's Ag Handbook 8 and sequelae)
4	PUFA	Root	870.0	4350.0	-0.318698697794576	USDA's Ag Handbook 8 and sequelae)
13	PALMITIC-ACID	Leaf	210.0	4284.0	-0.3076698789052898	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Leaf	210.0	4284.0	-0.12648268363942136	--
27	LINOLEIC-ACID	Root	750.0	3750.0	0.23419013142339878	--
2	PALMITOLEIC-ACID	Root	750.0	3750.0	1.9212861697652845	USDA's Ag Handbook 8 and sequelae)
29	TRYPTOPHAN	Leaf	160.0	3672.0	0.6804048665688907	USDA's Ag Handbook 8 and sequelae)
7	HISTIDINE	Leaf	150.0	3468.0	-0.9576955368033032	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Root	610.0	3050.0	-0.0821867763972658	--
65	MAGNESIUM	Leaf	130.0	2652.0	-0.5690626388509602	USDA's Ag Handbook 8 and sequelae)
1	SODIUM	Root	500.0	2500.0	0.6512650124326103	--
28	CALCIUM	Root	410.0	2050.0	-0.5862286623630208	--
13	PALMITIC-ACID	Root	410.0	2050.0	-0.30431334760427364	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Leaf	100.0	2040.0	-0.254634091901897	--
3	CICHORIIN	Flower	1000.0	2000.0		--
1	SODIUM	Leaf	70.0	1428.0	-0.3936622771435691	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Leaf	60.0	1224.0	-1.0636070799711819	USDA's Ag Handbook 8 and sequelae)
15	METHIONINE	Leaf	50.0	1224.0	-1.5483275310004487	USDA's Ag Handbook 8 and sequelae)
10	CHICORIC-ACID	Leaf		1100.0		--
65	MAGNESIUM	Root	220.0	1100.0	-0.7776954016677178	--
102	CAFFEIC-ACID	Leaf		767.0	-0.6095210261436637	--
15	ALPHA-LINOLENIC-ACID	Root	130.0	650.0	-0.32107850770475904	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Leaf	20.0	408.0	-0.6177088987554278	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Leaf	20.0	365.0	-0.692331152044028	USDA's Ag Handbook 8 and sequelae)
112	ASCORBIC-ACID	Root	50.0	250.0	-0.5030624603012167	--
6	IRON	Leaf	5.0	246.0	-0.29703270980762686	USDA's Ag Handbook 8 and sequelae)
53	BETA-CAROTENE	Leaf	0.0	228.0	-0.14501134388228565	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Leaf	10.0	204.0	-0.48893321127321177	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	MYRISTIC-ACID	Leaf	10.0	204.0	-0.6023075913949533	USDA's Ag Handbook 8 and sequelae)
18	OLEIC-ACID	Root	40.0	200.0	-0.6297846550737646	USDA's Ag Handbook 8 and sequelae)
13	MUFA	Root	40.0	200.0	-0.8770490931439714	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Root	30.0	150.0	-0.5390201665235613	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Leaf	5.0	102.0	0.05472679513303063	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Root	20.0	100.0	-0.6446087280612671	USDA's Ag Handbook 8 and sequelae)
7	SALICYLATES	Leaf	10.0	100.0	-0.3593779047496331	--
6	IRON	Root	8.0	40.0	-0.38354158556693424	--
15	RIBOFLAVIN	Leaf	1.0	29.0	-0.04192444032714655	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Root	4.0	20.0	-0.8763923978074498	USDA's Ag Handbook 8 and sequelae)
75	KAEMPFEROL	Seed		20.0		--
4	BORON	Root		20.0	-0.14974023395860875	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).
5	8-DEOXYLACTUCIN	Root		17.0		--
31	THIAMIN	Leaf	1.0	14.0	1.1869303740705777	USDA's Ag Handbook 8 and sequelae)
13	P-HYDROXY-BENZOIC-ACID	Leaf		11.0	-0.7729405090241419	--
31	THIAMIN	Root	0.0	2.0	-0.41582954985618054	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Root	0.0	2.0	-0.45399811156287	USDA's Ag Handbook 8 and sequelae)
176	QUERCETIN	Seed		1.0		--
61	FERULIC-ACID	Leaf		0.5	-1.0842680798316504	--
24	VANILLIC-ACID	Leaf		0.5	-1.181981260366695	--
9	SINAPIC-ACID	Plant		0.5	-1.0	--
24	VITAMIN-B-1	Root		0.05		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	ESCULIN	Flower				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar. Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
44	QUERCITRIN	Shoot				--
10	CHICORIC-ACID	Plant				--
1	LEVULOSE	Fruit Juice				--
32	AESCULETIN	Plant				--
77	ZINC	Root				--
18	MANNITOL	Plant				--
30	HYPEROSIDE	Plant				--
176	QUERCETIN	Plant				--
30	HYPEROSIDE	Leaf				--
30	ESCULETIN	Flower				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
2	QUERCETIN-3-O-BETA-D-GLUCURONIDE	Plant				--
2	LACTUPICRIN	Plant				--
32	AESCULETIN	Leaf				--
2	PROTocatechuic-ALDEHYDE	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
57	COUMARIN	Plant				--
77	CHLOROGENIC-ACID	Plant				--
2	QUERCETIN-3-O-BETA-D-GLUCURONIDE	Leaf				--
102	CAFFEIC-ACID	Shoot				--
2	TARAXASTEROL	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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4	LACTUCOPICRIN	Latex Exudate				--
5	8-DEOXYLACTUCIN	Plant				--
22	UMBELLIFERONE	Plant				--
12	COPPER	Root				--
22	CATECHOL	Root				--
14	CICHORIC-ACID	Leaf				--
9	BETA-AMYRIN	Seed				--
35	TANNIN	Plant				--
4	LACTUCOPICRIN	Fruit Juice				--
6	TARTARIC-ACID	Shoot				--
6	TARTARIC-ACID	Plant				--
23	CITRIC-ACID	Plant				--
2	NORHARMAN	Root				--
20	CHOLINE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	PONTICAEPOXIDE	Root				--
7	ASTRAGALIN	Plant				--
6	LACTUCIN	Root				--
8	STEARIC-ACID	Plant				--
7	HARMAN	Root				--
3	CICHORIIN	Leaf				--
8	INOSITOL	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Seed				--
7	ASTRAGALIN	Leaf				--
6	LACTUCIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	STEARIC-ACID	Seed				--
3	CICHORIIN	Root				--
18	OLEIC-ACID	Seed				--
101	APIGENIN	Shoot				--
6	LACTUCIN	Fruit Juice				--
3	SILVER	Root				--
6	ACETOPHENONE	Root				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.
4	SILICON	Root				--
3	CICHORIIN	Plant				--
2	NEO-CHLOROGENIC-ACID	Shoot				--
5	ALUMINUM	Root				--
4	LACTUCOPICRIN	Root				--
24	PECTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	SCOPOLETIN	Plant				--
77	CHLOROGENIC-ACID	Leaf				--
22	UMBELLIFERONE	Flower				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar. Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
2	NEO-CHLOROGENIC-ACID	Root				--
10	ALPHA-AMYRIN	Seed				--

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44	SCOPOLETIN	Flower				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar. Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
6	LACTUCIN	Latex Exudate				--
1	11(S),13-DIHYDROLACTUCOPICRIN	Root				--
4	ISOCHLOROGENIC-ACID	Root				--
77	CHLOROGENIC-ACID	Shoot				--
15	MALIC-ACID	Plant				--
33	AESCULIN	Leaf				--
75	KAEMPFEROL	Plant				--
1	11(S),13-DIHYDROLACTUCIN	Root				--
19	INULIN	Leaf				--
61	FERULIC-ACID	Plant				--
77	CHLOROGENIC-ACID	Root				--
14	BETAINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
27	LINOLEIC-ACID	Seed				--
33	AESCULIN	Plant				--
3	MANNOSE	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
4	ISOCHLOROGENIC-ACID	Plant				Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
1	11(S),13-DIHYDRO-8-DEOXYLACTUCIN	Root				--
30	HYPEROSIDE	Shoot				--