

## Dr. Duke's Phytochemical and Ethnobotanical Databases

### Chemicals found in Centaurea cyanus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
25	P-COUMARIC-ACID	Flower				Jim Duke's personal files.
101	APIGENIN	Shoot				Jim Duke's personal files.
5	ALUMINUM	Flower				--
34	SALICYLIC-ACID	Flower				Jim Duke's personal files.
2	NEO-CHLOROGENIC-ACID	Shoot				Jim Duke's personal files.
4	APIIN	Shoot				Jim Duke's personal files.
16	ACETIC-ACID	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
11	ISORHAMNETIN	Shoot				Jim Duke's personal files.
2	NEO-CHLOROGENIC-ACID	Flower				Jim Duke's personal files.
4	RUTOSIDE	Plant				Wealth of India.
6	QUERCIMERITRIN	Shoot				Jim Duke's personal files.
176	QUERCETIN	Shoot				Jim Duke's personal files.
4	ISOCHLOROGENIC-ACID	Shoot				Jim Duke's personal files.
1	QUERCETOL	Plant				Wealth of India.
35	TANNIN	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
43	PROTocatechuic-ACID	Flower				Jim Duke's personal files.
77	CHLOROGENIC-ACID	Shoot				Jim Duke's personal files.
78	LUTEOLIN	Plant				Wealth of India.
1	PELARGONIN	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
1	N-NONACOSANE	Flower				Jim Duke's personal files.
77	CHLOROGENIC-ACID	Flower				Jim Duke's personal files.
75	KAEMPFEROL	Plant				Wealth of India.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	MUCILAGE	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
78	LUTEOLIN	Shoot				Jim Duke's personal files.
102	CAFFEIC-ACID	Shoot				Jim Duke's personal files.
24	VANILLIC-ACID	Flower				Jim Duke's personal files.
6	IRON	Plant				--
75	KAEMPFEROL	Shoot				Jim Duke's personal files.
102	CAFFEIC-ACID	Flower				Jim Duke's personal files.
22	UMBELLIFERONE	Shoot				Jim Duke's personal files.
5	CYANIN	Flower				--
7	HISPIDULIN	Shoot				Jim Duke's personal files.
13	P-HYDROXY-BENZOIC-ACID	Flower				Jim Duke's personal files.
6	SYRINGIC-ACID	Flower				Jim Duke's personal files.
10	CNICIN	Flower				Wealth of India.
61	FERULIC-ACID	Flower				Jim Duke's personal files.
20	BENZOIC-ACID	Flower				Jim Duke's personal files.
47	BETA-SITOSTEROL	Flower				Jim Duke's personal files.
3	CICHORIIN	Flower				--
3	CYNAROSIDE	Shoot				Jim Duke's personal files.
1	ARNIDIOL	Flower				Jim Duke's personal files.
4	APIIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
44	SCOPOLETIN	Shoot				Jim Duke's personal files.