

Phytochemical

Echinacea purpurea (L.) MOENCH. - Asteraceae

Common names: Eastern Purple-Coneflower -- Echinacea -- Purple-Coneflower

Activities

Number of distinct activities for species = 475

List of chemicals

Chemical	Part	Lo ppm	Hi ppm	Reference
13-HYDROXY-OCTADECA-CIS-9-TRANS-11-CIS-15-TRIENNOIC-ACID	Shoot			AllHerb1998
2,3-DICAFFEOYL-TARTARIC-ACID	Shoot		3400	AllHerb1998
2-CAFFEOYL-3-COUMAROYL-TARTARIC-ACID	Shoot		120	AllHerb1998
2-CAFFEOYL-3-FERULOYL-TARTARIC-ACID	Shoot		1600	AllHerb1998
2-CAFFEOYL-TARTARIC-ACID	Shoot		1000	AllHerb1998
2-FERULOYL-TARTARIC-ACID	Shoot		400	AllHerb1998
3,4-EPOXY-TRIDECA-1,5-DIENE-7,9,11-TRIYNE	Root	800	11000	AllHerb1998
3,4-EPOXY-TRIDECA-1,5-DIENE-7,9,11-TRIYNE	Stem			AllHerb1998
4-O-METHYL-GLUCURONOARABINOXYLAN	Shoot		2600	AllHerb1998
ALUMINUM	Root	197	786	PED98
ARABINOGALACTAN	Shoot			AllHerb1998
ARABINOGALACTAN	Tissue Culture			AllHerb1998
ASCORBIC-ACID	Root	212	843	PED98
ASCORBIC-ACID	Root			AllHerb1998
ASH	Root	20080	80000	PED98
BETA-CAROTENE	Root	0.6	2.2	PED98
BETA-SITOSTEROL	Root			AllHerb1998
BETAINE	Plant			LAF
BETAINE	Root			AllHerb1998
BORNEOL	Shoot			LAF
BORNYL-ACETATE	Shoot			LAF
CALCIUM	Root	826	3290	PED98
CARYOPHYLLENE	Shoot			LAF
CARYOPHYLLENE-EPOXIDE	Shoot			LAF
CHICHORIC-ACID	Flower			AllHerb1998
CHICHORIC-ACID	Leaf			AllHerb1998
CHICHORIC-ACID	Root			AllHerb1998
CHICHORIC-ACID	Stem			AllHerb1998

<u>CHICHORIC-ACID-DIMETHYL-ETHER</u>	Flower			AllHerb1998
<u>CHICHORIC-ACID-DIMETHYL-ETHER</u>	Leaf			AllHerb1998
<u>CHICHORIC-ACID-DIMETHYL-ETHER</u>	Stem			AllHerb1998
<u>CHICHORIC-ACID-DIMETHYL-ETHER</u>	Root			AllHerb1998
<u>CHICHORIC-ACID-MONOMETHYL-ETHER</u>	Flower			AllHerb1998
<u>CHICHORIC-ACID-MONOMETHYL-ETHER</u>	Leaf			AllHerb1998
<u>CHICHORIC-ACID-MONOMETHYL-ETHER</u>	Stem			AllHerb1998
<u>CHICHORIC-ACID-MONOMETHYL-ETHER</u>	Root			AllHerb1998
<u>CHROMIUM</u>	Root	0.5	1.9	PED98
<u>CICHORIC-ACID</u>	Flower	12000	31000	LAF
<u>CICHORIC-ACID</u>	Shoot			ALLHERB1998
<u>CICHORIC-ACID</u>	Root	123	21000	LAF ALLHERB1998
<u>CICHORIENIC-ACID</u>	Root			AllHerb1998
<u>CINNAMOYL-ECHINADIOL</u>	Root		1000	AllHerb1998
<u>CINNAMOYL-ECHINAXANTHOL</u>	Root		1000	AllHerb1998
<u>COBALT</u>	Root	4	14.8	PED98
<u>CYANIDIN-3-O-(6-O-MALONYL-BETA-D-GLUCOPYRANOSIDE)</u>	Flower			AllHerb1998
<u>CYANIN</u>	Flower			AllHerb1998
<u>DODECA-2,4,8,10-TETRAEN-1-OIC-ACID-ISOBUTYLAMIDE</u>	Root		166.7	AllHerb1998
<u>DODECA-2-TRANS-4-CIS-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Shoot			AllHerb1998
<u>DODECA-2-TRANS-4-CIS-DIENE-8,10-DIYNOIC-ACID-2-METHYL-BUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-CIS-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-10-TRANS-TRIEN-8-YNOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-8-CIS-10-CIS-TETRAENOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-8-CIS-10-CIS-TETRAENOIC-ACID-ISOBUTYLAMIDE</u>	Shoot			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-8-CIS-TRIENOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-8-CIS-TRIENOIC-ACID-ISOBUTYLAMIDE</u>	Shoot			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-DIENOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>DODECA-2-TRANS-4-TRANS-DIENOIC-ACID-ISOBUTYLAMIDE</u>	Shoot			AllHerb1998
<u>DODECA-2E,4E,8Z,10E/Z-TETRAENOIC-ACID-ISOBUTYLAMIDES</u>	Shoot			BIS
<u>DODECA-CIS-2-TRANS-4-DIENE-8,10-DIYN-1-OIC-</u>	Root		166.7	AllHerb1998

<u>ACID-ISOBUTYLAMIDE</u>				
<u>DODECA-TRANS-2-CIS-4-DIENE-8,10-DIYNOIC-ACID-2-METHYL-BUTYLAMIDE</u>	Root		2.8	AllHerb1998
<u>DODECA-TRANS-2-CIS-4-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root		4.4	AllHerb1998
<u>DODECA-TRANS-2-TRANS-4-CIS-8-CIS-10-TETRAENOIC-ACID-ISOBUTYLAMIDE</u>	Root		16.7	AllHerb1998
<u>DODECA-TRANS-2-TRANS-4-CIS-8-TRANS-10-TETRAENOIC-ACID-ISOBUTYLAMIDE</u>	Root		16.7	AllHerb1998
<u>DODECA-TRANS-2-TRANS-4-CIS-8-TRIENOIC-ACID-ISOBUTYLAMIDE</u>	Root		2.8	AllHerb1998
<u>DODECA-TRANS-2-TRANS-4-TRANS-10-TRIEN-8-YNOIC-ACID-ISOBUTYLAMIDE</u>	Root		1.1	AllHerb1998
<u>ECHINACEA-FACTOR-A</u>	Root			AllHerb1998
<u>ECHINACEA-FACTOR-B</u>	Root			AllHerb1998
<u>ECHINACEA-POLYSACCHARIDE</u>	Tissue Culture			AllHerb1998
<u>ECHINACEA-POLYSACCHARIDE-VII-A</u>	Root			AllHerb1998
<u>ECHINACEA-PURPUREA-POLYSACCHARIDE</u>	Shoot			AllHerb1998
<u>ECHINACEA-PURPUREA-POLYSACCHARIDE-I</u>	Root			AllHerb1998
<u>ECHINACIN-B</u>	Root			AllHerb1998
<u>ECHINACOSIDE</u>	Root			AllHerb1998
<u>EO</u>	Flower	1300	4800	AllHerb1998
<u>EO</u>	Shoot	900	3200	AllHerb1998
<u>EO</u>	Root	628	2500	PED98
<u>EO</u>	Root	400	2200	AllHerb1998
<u>FAT</u>	Root	3263	13000	PED98
<u>FIBER(CRUDE)</u>	Root		111000	PED98
<u>FIBER(DIETARY)</u>	Root		512000	PED98
<u>GERMACRA-4(15)-5-TRANS-10(14)-TRIEN-1-BETA-OL</u>	Shoot		42.1	AllHerb1998
<u>GERMACRANEDIOL-EPOXIDE-CINNAMIC-ACID-ESTER</u>	Root			AllHerb1998
<u>GERMACRENE-ALCOHOL</u>	Shoot			LAF
<u>GERMACRENE-D</u>	Shoot		120	AllHerb1998 LAF
<u>GLYCINE</u>	Plant			LAF
<u>GLYCINE-BETAINE</u>	Flower		16450	AllHerb1998
<u>GLYCINE-BETAINE</u>	Leaf		11200	AllHerb1998
<u>GLYCINE-BETAINE</u>	Root		4500	AllHerb1998
<u>GLYCINE-BETAINE</u>	Stem		5650	AllHerb1998
<u>GUM</u>	Root	20080	80000	PED98
<u>HETEROXYLAN</u>	Shoot			AllHerb1998
<u>INULIN</u>	Root	42670	170000	PED98

<u>INULIN</u>	Root			AllHerb1998
<u>IRON</u>	Root	18	70	PED98
<u>ISOTUSSILAGINE</u>	Root	15	60	BIS
<u>KAEMPFEROL-3-O-RUTINOSIDE</u>	Leaf			LAF
<u>MAGNESIUM</u>	Root	467	1860	PED98
<u>MANGANESE</u>	Root	3	10.1	PED98
<u>METHYL-P-HYDROXYCINNAMATE</u>	Shoot			CAN
<u>NIACIN</u>	Root	17	68	PED98
<u>P-COUMARIC-ACID</u>	Fruit Juice			AllHerb1998
<u>P-HYDROXYCINNAMIC-ACID-METHYL-ESTER</u>	Plant			LAF
<u>PENTADEC-TRANS-2-CIS-9-DIENE-12,14-DIYNOIC-ACID-(2-HYDROXY-ISOBUTYL)-AMIDE</u>	Shoot		10	AllHerb1998
<u>PENTADEC-TRANS-2-CIS-9-DIENE-12,14-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Shoot		8	AllHerb1998
<u>PHOSPHORUS</u>	Root	198	790	PED98
<u>POLYSACCHARIDE</u>	Plant			AllHerb1998
<u>POLYSACCHARIDE-A</u>	Tissue Culture			AllHerb1998
<u>POLYSACCHARIDE-E</u>	Tissue Culture			AllHerb1998
<u>POLYSACCHARIDE-F</u>	Tissue Culture			AllHerb1998
<u>POTASSIUM</u>	Root	2031	8090	PED98
<u>PROTEIN</u>	Root	23092	92000	PED98
<u>QUERCETIN</u>	Leaf			LAF
<u>QUERCETIN-7-GLUCOSIDE</u>	Leaf			LAF
<u>RESIN</u>	Root	5020	20000	PED98
<u>RHAMNOARABINOGALACTAN</u>	Root			BIS
<u>RHAMNOARABINOGALACTAN</u>	Shoot			AllHerb1998
<u>RIBOFLAVIN</u>	Root	3	12	PED98
<u>RUTIN</u>	Leaf			LAF
<u>RUTOSIDE</u>	Leaf			LAF
<u>SELENIUM</u>	Root	0.5	2.1	PED98
<u>SILICON</u>	Root	8	30.1	PED98
<u>SODIUM</u>	Root	23	90	PED98
<u>STARCH</u>	Root	30120	120000	PED98
<u>SUCROSE</u>	Root		34000	AllHerb1998
<u>THIAMINE</u>	Root	0.7	2.6	PED98
<u>TIN</u>	Root	4.3	17	PED98
<u>TRIDEC-1-ENE-3-5-7-9-11-PENTAYNE</u>	Flower		5000	AllHerb1998
<u>TRIDEC-1-ENE-3-5-7-9-11-PENTAYNE</u>	Stem		100	AllHerb1998
<u>TRIDEC-1-ENE-3-5-7-9-11-PENTAYNE</u>	Root	1.7	12500	AllHerb1998

<u>TRIDECA-1,3-DIENE-5,7,9,11-TETRAYNE</u>	Root		100	AllHerb1998
<u>TRIDECA-1-11-DIENE-3-5-7-9-TETRAYNE</u>	Flower			AllHerb1998
<u>TRIDECA-1-11-DIENE-3-5-7-9-TETRAYNE</u>	Root		100	AllHerb1998
<u>TRIDECA-2-TRANS-7-CIS-DIENE-10,12-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>TRIDECA-8,10,12-TRIENE-2,4,6-TRIYNE</u>	Flower			AllHerb1998
<u>TRIDECA-8,10,12-TRIENE-2,4,6-TRIYNE</u>	Root	200	300	AllHerb1998
<u>TRIDECA-TRANS-2-CIS-7-DIENE-10,12-DIYNOIC-ACID-(2-METHYL-BUTYL)-AMIDE</u>	Shoot		1.2	AllHerb1998
<u>TRIDECA-TRANS-2-CIS-7-DIENE-10,12-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root		4.4	AllHerb1998
<u>TRIDECA-TRANS-2-CIS-7-DIENE-10,12-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Shoot		20	AllHerb1998
<u>TRIDECA-TRANS-2-TRANS-6-CIS-8-TRIENE-10,12-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Shoot	2	3.2	AllHerb1998
<u>TUSSILAGIN</u>	Plant			AllHerb1998
<u>TUSSILAGINE</u>	Root	15	60	EMP5:253 411/
<u>UNDECA-2-CIS-4-TRANS-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>UNDECA-2-TRANS-4-CIS-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Shoot			AllHerb1998
<u>UNDECA-2-TRANS-4-CIS-DIENE-8,10-DIYNOIC-ACID-2-METHYL-BUTYLAMIDE</u>	Root			AllHerb1998
<u>UNDECA-2-TRANS-4-CIS-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root			AllHerb1998
<u>UNDECA-CIS-2-TRANS-4-DIENE-2,4-DIYN-1-OIC-ACID-ISOBUTYLAMIDE</u>	Root		166.7	AllHerb1998
<u>UNDECA-CIS-2-TRANS-4-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root		12.8	AllHerb1998
<u>UNDECA-TRANS-2-CIS-4-DIENE-8,10-DIYNOIC-ACID-2-METHYL-BUTYLAMIDE</u>	Root		1.7	AllHerb1998
<u>UNDECA-TRANS-2-CIS-4-DIENE-8,10-DIYNOIC-ACID-ISOBUTYLAMIDE</u>	Root		5.6	AllHerb1998
<u>VANILLIN</u>	Plant			LAF
<u>VANILLIN</u>	Shoot		2.4	AllHerb1998
<u>WATER</u>	Root		749000	PED98
<u>ZINC</u>	Root	1.3	5.1	PED98