

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in Echinacea purpurea

Activity	Chemical Count
(-)-Chronotropic	2
(-)-Inotropic	2
11B-HSD-Inhibitor	1
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	1
Abortifacient	1
Absorbent	1
ACE-Inhibitor	1
Acidulant	1
Aggregant	1
Alcohol-Dehydrogenase-Inhibitor	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	5
Allelochemic	4
Allelopathic	1
Allergenic	5
Amphiglycemic?	1
Analgesic	6
Androgenic	1
Androgenic?	1
Angiogenic	1
Angiotensin-Receptor-Blocker	2
Anorexic	2
Antiacetylcholine	1
Antiacid	1
Antiacne	6
Antiacrodermatitic	1

Activity	Chemical Count
Antiacrodynic	1
Antiadenomic	1
Antiaflatoxin	1
AntiAGE	2
Antiaggregant	6
Antiaging	4
Antiakathisic	1
Antialcoholic	3
Antialdosteronic	1
Antiallergic	5
Antialopepic	1
Antialzheimeran	4
Antiamblyopic	1
Antianaphylactic	1
Antiandrogenic	1
Antianemic	3
Antiangular	2
Antiangiogenic	3
Antianorectic	1
Antianorexic	1
Antianxiety	2
Antiapoplectic	1
Antiarabiflavinotic	1
Antiarrhythmic	3
Antiarteriosclerotic	1
Antiarthritic	8
Antiasthmatic	6

Activity	Chemical Count
Antiatherogenic	1
Antiatherosclerotic	7
Antibacterial	10
AntiBPH	1
Antibronchitic	1
Anticancer	3
Anticancer (Breast)	1
Anticancer (Cervix)	1
Anticancer (Lung)	1
Anticanker	2
Anticapillary-Fragility	2
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticariogenic	2
Anticarpal-Tunnel	1
Anticataract	7
Anticephalagic	2
Anticervicaldysplasic	3
AntiCFS	3
Anticheilitic	2
Antichilblain	1
Anticirrhotic	1
Anticlastogen	2
Anticlimacteric	4
Anticoeliac	1
Anticold	2
Anticolitic	2

Activity	Chemical Count
Anticolitic?	1
Anticomplementary	2
Anticonvulsant	3
Anticorneotic	1
Anticoronary	4
AntiCrohn's	3
AntiCTS	1
AntiCVI	1
Anticystitic	1
Antidandruff	2
Antidecubitic	2
Antidementia	4
Antidepressant	6
Antidermatitic	4
Antidiabetic	9
Antidiarrheic	1
Antidiscotic	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Hypoglycin-A)	1
Antidote (Iodine)	1
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paraquat)	1
Antidrepanocytic	1
Antidysgeuzic	1
Antidyskinetic	1

Activity	Chemical Count
Antidysmenorrhic	1
Antidysphagic	1
Antieczemic	2
Antiedemic	4
Antielastase	1
Antiencephalitic	2
Antiencephalopathic	2
Antiendometriotic	2
Antienterotic	1
Antiepileptic	4
Antierythemic	1
Antiescherichic	3
Antiestrogenic	2
Antifatigue	4
Antifeedant	7
Antifertility	2
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrotic	3
Antiflu	3
Antifuruncular	1
Antigallstone	1
Antigastric	1
Antigastritic	3
Antigastrotic	1
Antigingivitic	1
Antiglaucomic	3

Activity	Chemical Count
Antiglossitic	1
Antiglycosuric	1
Antigonadotrophic	1
Antigonadotropic	1
Antigout	1
AntiGTF	1
Antihangover	3
Antihematuric	1
Antihemorrhagic	1
Antihemorrhoidal	1
Antihepatitic	1
Antihepatotoxic	5
Antitherpetic	3
Antitherpetic?	1
Antihiccup	1
Antihistaminic	4
AntiHIV	4
AntiHIV-Integrase	1
Antihomocystinuric	1
Antihydrophobic	1
Antihyperactivity	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipoproteinaemic	1
Antihypertensive	6
Antihypoglycemic	1
Antiichthyotic	1

Activity	Chemical Count
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	7
Antiinsomniac	3
Antiinsomnic	1
Antikeratitic	1
Antikeshan	1
Antilactobacillic	1
Antileishmanic	3
Antileptic	2
Antileukemic	4
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	2
Antilipoperoxidant	2
Antilisteria	1
Antilithic	2
Antilupus	1
AntiLyme	4
Antilymphomic	2
Antimaculitic	4
Antimalarial	2
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanomic	3

Activity	Chemical Count
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	1
Antimetastatic	4
Antimigraine	3
Antimitral-valve-prolapse	1
AntiMS	1
Antimutagenic	6
Antimyalgic	1
Antimyotrophic	1
Antimyocarditic	1
Antinephritic	1
Antinephrolytic	1
Antinesidioblastosic	1
Antineuralgic	1
Antineuramidase	1
Antineuropathic	1
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	2
Antinitrosic	1
Antinociceptive	2
Antinyctalopic	1
Antiobesity	4
Antiobesity?	1
Antionychyotic	2
Antiophidic	1

Activity	Chemical Count
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	2
Antiosteoporotic	7
Antiosteoporotic?	1
Antiotitic	2
Antiototic	1
Antioxidant	11
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	3
Antiparotitic	1
Antipellagic	2
Antiperiodontal	1
Antiperiodontitic	3
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	3
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplaque	3
Antiplasmodial	1
Antiplaquet	1
AntiPMS	5
Antipneumonic	1

Activity	Chemical Count
Antipodriac	2
Antipolio	3
Antipoliomyelitic	1
Antiporphyric	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	5
Antiprostaglandin	1
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	4
Antiprotozoal	1
Antipruritic	1
Antipsoriac	2
Antipurpuric	1
Antipyretic	3
Antiradicular	7
AntiRaynaud's	3
Antiretinopathic	1
Antiretinotic	1
Antirheumatic	5
Antirhinitic	1
Antisalmonella	1
Antiscorbutic	1
Antiscotomic	1
Antiseptic	3
Antishingles	1

Activity	Chemical Count
Antisickling	2
Antisilicotic	1
Antispare-Tire	1
Antispasmodic	10
Antispasmophilic	1
Antistaph	1
Antistaphylococcic	2
Antistomatitic	3
Antistreptococcic	2
Antistress	4
Antistroke	2
Antisunburn	3
Antisyndrome-X	6
Antithiamin	1
Antithrombic	1
Antithrombogenic	1
Antithyroid	1
Antitic	1
Antitinnitic	1
Antitriglyceride	2
Antitrypanosomic	2
Antitumor	7
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	4
Antitumor (Cervix)	1
Antitumor (CNS)	1

Activity	Chemical Count
Antitumor (Colon)	2
Antitumor (Gastric)	1
Antitumor (Lung)	5
Antitumor (Ovary)	1
Antitumor (Prostate)	2
Antitumor (Skin)	1
Antitumor (Stomach)	1
Antitumor-Promoter	3
Antiulcer	7
Antiulcerogenic	1
Antivaginitic	1
Antivaricose	1
Antivertigo	1
Antiviral	9
Antiviral?	1
Antixerophthalmic	1
Antiyeast	2
Anxiolytic	5
AP-1-Inhibitor	1
Apoptotic	5
Artemicide	1
Asthma-preventive	1
Astringent	1
Atherogenic	1
ATPase-Inhibitor	1
Attifuge	1
Bacteristat	3

Activity	Chemical Count
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	1
Beta-Glucuronidase-Inhibitor	1
Bifidogenic	1
Bradycardiac	1
Bruchiphobe	1
Calcium-Antagonist	3
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	11
Candidicide	6
Capillariprotective	2
Carcinogenic	1
Cardiomyopathogenic	1
Cardioprotective	8
Cardiotoxic	1
Caspase-8-Inducer	1
Catabolic	2
Chemopreventive	3
Chemopreventive (Breast Cancer)	1
Chemopreventive (Colon Cancer)	1
Choleretic	4
Circulotonic	1
CNS-Depressant	1
CNS-Stimulant	1
CNS-Toxic	1

Activity	Chemical Count
Cold-preventive	1
Collagen-Sparing	2
Collagenic	2
Collyrium	1
Colorant	1
COMT-Inhibitor	2
Copper-Antagonist	1
Copper-Chelator	1
COX-1-Inhibitor	1
COX-2-Inhibitor	2
Cyclooxygenase-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	1
Cytotoxic	2
Deiodinase-Inhibitor	1
Demulcent	1
Deodorant	1
Depressant	1
Detoxicant	1
Detoxicant (Alcohol)	1
Diaphoretic?	2
Differentiator	1
Diuretic	5
Emetic	1
Emmenagogue	1
Emollient	1
Encephalopathic	1

Activity	Chemical Count
Energizer	1
Ergogenic	1
Erythrocytogenic	1
Estrogenic	2
Estrogenic?	1
Ethanolytic	1
Expectorant	3
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
Flatugenic	1
FLavor	4
Fungicide	6
Fungistat	1
Gastroprotective	2
Gastrostimulant	1
Glucosyl-Transferase-Inhibitor	1
Gonadotrophic	1
Hemostat	2
Hepatomagenic	2
Hepatoprotective	6
Hepatotoxic	1
Herbicide	1
HIV-RT-Inhibitor	1
Hyaluronidase-Inhibitor	1
Hypercholesterolemic	1
Hypertensive	1

Activity	Chemical Count
Hypocholesterolemic	8
Hypoglycemic	7
Hypolipidemic	2
Hypotensive	7
Immunomodulator	6
Immunostimulant	9
Immunosuppressant	2
Inhalant	1
iNOS-Inhibitor	1
Inotropic	1
Insect-Repellent	1
Insecticide	1
Insectifuge	4
Insectifuge?	1
Insectiphile	1
Insulinogenic	4
Interferon-Synergist	1
Interferonogenic	2
Irritant	3
Juvabional	2
Larvicide	2
Larvostat	2
Laxative	3
Leptogenic	1
Lipolytic	1
Lipotropic	1
Lipoxygenase-Inhibitor	3

Activity	Chemical Count
Lithogenic	1
Litholytic	1
MAO-A-Inhibitor	1
Mast-Cell-Stabilizer	1
Memorigenic	1
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Mitogenic	1
MMP-9-Inhibitor	1
Mosquitocide	1
Mucogenic	3
Mucolytic	1
Mutagenic	2
Myoprotective	1
Myorelaxant	4
NADH-Oxidase-Inhibitor	1
Nematicide	1
NEP-Inhibitor	1
Neuroinhibitor	1
Neuroprotective	1
Neurotransmitter	1
NF-kB-Inhibitor	3
NO-Inhibitor	1
NO-Synthase-Inhibitor	1
Ornithine-Decarboxylase-Inhibitor	2
Osteogenic	1
Oviposition-Stimulant	1

Activity	Chemical Count
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Perfumery	3
Pesticide	19
PGE2-Inhibitor	1
Phagocytotic	4
Pheromone	1
Phospholipase-Inhibitor	1
Pigment	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Poultice	1
Prebiotic	1
Preservative	1
Probiotic	1
Probiotogenic	1
Proliferant	1
Prooxidant	2
Prostaglandigenic	1
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	2
Protein-Kinase-C-Inhibitor	2
Protisticide	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	1
Radioprotective	1

Activity	Chemical Count
Sedative	4
Serotoninerbic	1
Spermicide	1
Spermigenic	1
Sunscreen	1
Sweetener	1
Taenicide	1
Teratologic	1
Termitifuge	1
Testosteronigenic	1
Thymoprotective	1
TNF-alpha-Inhibitor	1
Topoisomerase-I-Inhibitor	1
Topoisomerase-II-Inhibitor	2
Tranquilizer	3
Trichomonicide	1
Triglycerigenic	1
Tumorigenic	1
Tyrosinase-Inhibitor	2
Tyrosine-Kinase-Inhibitor	1
Ubiquiot	2
Ulcerogenic	1
Uricogenic	1
Uricosuric	2
Urinary-Acidulant	1
Uterorelaxant	1
Vasodilator	7

Activity	Chemical Count
Vasopressor	1
VEGF-Inhibitor	2
Vulnerary	4
Xanthine-Oxidase-Inhibitor	1