

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Crataegus laevigata*

Activity	Chemical Count
Antioxidant	32
Cancer-Preventive	31
Pesticide	29
Antiinflammatory	26
Antibacterial	22
Antiviral	22
Diuretic	19
Hypocholesterolemic	18
Antidiabetic	18
Hypotensive	18
Antihistaminic	17
Antimutagenic	17
Vasodilator	16
AntiHIV	15
Hepatoprotective	15
Antitumor	15
Hypoglycemic	14
Antiedemic	14
Antiarthritic	14
Antiaggregant	13
Antiulcer	13
Cardioprotective	13
Immunomodulator	13
Antiradicular	12
Antispasmodic	12
Analgesic	12
Aldose-Reductase-Inhibitor	12

Activity	Chemical Count
Antihepatotoxic	11
Antiatherosclerotic	11
Antileukemic	11
Lipoxygenase-Inhibitor	11
Immunostimulant	11
Xanthine-Oxidase-Inhibitor	11
Antiallergic	11
Antitumor (Lung)	10
Cardiotonic	10
Anticataract	10
Antiherpetic	10
Antiperoxidant	10
Antiaging	9
Antidermatitic	9
Antiarrhythmic	9
Antihypertensive	8
Allergenic	8
Antifeedant	8
Anxiolytic	8
COX-2-Inhibitor	8
Antiproliferant	8
Cytotoxic	8
Choleretic	8
Antiosteoporotic	8
Antidepressant	8
Antiseptic	8
ACE-Inhibitor	7

Activity	Chemical Count
Antitumor (Colon)	7
Hypertensive	7
Antimetastatic	7
Ornithine-Decarboxylase-Inhibitor	7
Antitumor (Breast)	7
Antiobesity	7
Hemostat	7
Apoptotic	7
Antialzheimeran	7
Sunscreen	7
Vulnerary	6
Beta-Glucuronidase-Inhibitor	6
Antiacne	6
Antileukotriene	6
Propecic	6
Cyclooxygenase-Inhibitor	6
Insulinogenic	6
Antidementia	6
Chemopreventive	6
Antialopepic	6
Calcium-Antagonist	6
Insectifuge	6
Antinociceptive	6
Antiasthmatic	6
Antiangiogenic	6
Fungicide	6
Allelochemic	6

Activity	Chemical Count
Antifatigue	6
Antiflu	6
Antirheumatic	6
Antisyndrome-X	6
Antiplateau	6
NF-kB-Inhibitor	6
Anticancer	5
Sedative	5
Antimelanomic	5
Myorelaxant	5
Antistress	5
Antianaphylactic	5
Laxative	5
AntiEBV	5
Antialcoholic	5
Antiparkinsonian	5
FLavor	5
Anticoronary	5
Antitumor-Promoter	5
Antimalarial	5
Candidicide	5
Antithyroid	5
Hyaluronidase-Inhibitor	5
Anticomplementary	5
Vasopressor	5
Antitumor (Skin)	5
Antiprostaglandin	5

Activity	Chemical Count
AntiLyme	5
AntiPMS	5
COX-1-Inhibitor	5
Beta-Adrenergic Receptor Blocker	5
Antilipoperoxidant	5
Vasoconstrictor	5
Antimigraine	4
AntiRaynaud's	4
Carcinogenic	4
Antitussive	4
Anticlimacteric	4
Antiatherogenic	4
CNS-Depressant	4
Antigastric	4
NO-Inhibitor	4
Antierythemic	4
Antimenopausal	4
Antilymphomic	4
Anticariogenic	4
Antianemic	4
Anticapillary-Fragility	4
Antihepatic	4
Capillariprotective	4
Antiastrogenic	4
cAMP-Phosphodiesterase-Inhibitor	4
Antiinsomniac	4
VEGF-Inhibitor	4

Activity	Chemical Count
Antiprostatic	4
Beta-Blocker	4
Antiglaucomic	4
TNF-alpha-Inhibitor	4
Antilithic	4
Anticarcinomic	4
Aromatase-Inhibitor	4
Estrogenic	4
Antiepileptic	4
Quinone-Reductase-Inducer	4
Protein-Kinase-C-Inhibitor	4
Antipyretic	4
Antihangover	4
Antitumor (Ovary)	4
Antimaculitic	4
Juvabional	3
Antiperiodontal	3
Lithogenic	3
Antitumor (Prostate)	3
Antihyperglycemic	3
Antidecubitic	3
Deiodinase-Inhibitor	3
Antifibrotic	3
Antileishmanic	3
Adrenergic	3
Sweetener	3
Antiperiodontitic	3

Activity	Chemical Count
Hypercholesterolemic	3
Anticonvulsant	3
Cosmetic	3
Neuroprotective	3
Antisunburn	3
Antitumor (Stomach)	3
Bacteristat	3
Inotropic	3
Topoisomerase-II-Inhibitor	3
Antinitrosaminic	3
Anticervicaldysplasic	3
Antiseborrheic	3
Neurotransmitter	3
Irritant	3
Anticolitic	3
Elastase-Inhibitor	3
Phagocytotic	3
Antipolio	3
MMP-9-Inhibitor	3
Antiplasmodial	3
Antitrypanosomic	3
Prooxidant	3
Larvostat	3
Antiischemic	3
5-Alpha-Reductase-Inhibitor	3
Antistroke	3
iNOS-Inhibitor	3

Activity	Chemical Count
Topoisomerase-I-Inhibitor	3
Antistaphylococcic	3
Antiandrogenic	3
Anticancer	3
Sympathomimetic	3
Antinephritic	3
Antihemorrhoidal	3
Antieczemic	3
Antiescherichic	3
Antidote (Lead)	3
Collagenic	3
Antigonadotropic	3
Toxic	3
Differentiator	3
Antihyperlipidemic	3
AntiCFS	3
Mutagenic	3
Angiotensin-Receptor-Blocker	3
PTK-Inhibitor	3
Antitumor (brain)	3
Anticarcinogenic	3
Antielastase	3
AntiCrohn's	3
Anticomplement	2
NEP-Inhibitor	2
AntiTGF-beta	2
Antipanniculopathic	2

Activity	Chemical Count
Leukotriene-Inhibitor	2
11B-HSD-Inhibitor	2
Antiencephalitic	2
Hepatotropic	2
Insectiphile	2
Antidote (Aluminum)	2
Peristaltic	2
TOPO-2-Inhibitor	2
Detoxicant	2
PAF-Inhibitor	2
Antitumor (Kidney)	2
Pyrogenic	2
Anticellulitic	2
Antipoliomyelitic	2
Mucogenic	2
Antianorectic	2
Antitumor (Cervix)	2
Protease-Inhibitor	2
Choline-Sparing	2
Metalloproteinase-Inhibitor	2
ICAM-1-Inhibitor	2
AntiCVI	2
Antihemorrhagic	2
Lubricant	2
AntiMS	2
Ulcerogenic	2
Antiosteoarthritic	2

Activity	Chemical Count
Antiinfertility	2
Vasoprotective	2
Antiendometriotic	2
Antiulcerogenic	2
Histamine-Inhibitor	2
Antipurpuric	2
COMP-Inhibitor	2
NADH-Oxidase-Inhibitor	2
Antiaflatoxin	2
DNA-Protective	2
Myocontractant	2
Antiartherosclerotic	2
Antihyperkinetic	2
Radioprotective	2
CNS-Stimulant	2
Deodorant	2
Antianxiety	2
Protisticide	2
Microvasculokinetic	2
Aldehyde-Oxidase-Inhibitor	2
Antifibrinolytic	2
Aphidifuge	2
Hypolipidemic	2
Antiketotic	2
MAO-A-Inhibitor	2
Polyamine-Synthesis-Inhibitor	2
Antipellagic	2

Activity	Chemical Count
Nematicide	2
Interferonogenic	2
Antiophidic	2
Antitachycardic	2
Antimelanogenic	2
Tranquilizer	2
Antidiuretic	2
Antitumor (Pancreas)	2
Anticheilitic	2
Anorexic	2
Antineuropathic	2
Dermatitigenic	2
Antihypercholesterolemic	2
CNS-Active	2
Antidandruff	2
Antineuralgic	2
Antifibrosarcomic	2
Antiamblyopic	2
Anticancer (Lung)	2
AntiLegionella	2
MAPK-Inhibitor	2
Antimyocarditic	2
Cyclooxygenase-Activator	2
Litholytic	2
Antivaricose	2
Spasmogenic	2
Antiretinopathic	2

Activity	Chemical Count
Antihemolytic	2
Ubiquiot	2
Antithiamin	2
Piscicide	2
Antibiotic	2
Cardiodepressant	2
Lipolytic	2
Antiencephalopathic	2
Anticoagulant	2
Antipsoriac	2
Antidote (Cadmium)	2
Antihyperthyroid	2
Hepatomagenic	2
Collagen-Sparing	2
Pancreatogenic	2
Anticephalagic	2
Antigastrotic	2
Demulcent	2
Oviposition-Stimulant	2
IKK-Inhibitor	2
NO-Synthase-Inhibitor	2
Antileptic	2
Antiphotophobic	2
Memorigenic	2
Antifertility	2
AntiCVS	2
Antioxidant Synergist	2

Activity	Chemical Count
Anticancer (Colon)	2
Antiperistaltic	2
Catabolic	2
Hyperglycemic	2
Antidyskinetic	2
Antithrombogenic	2
5-Lipoxygenase-Inhibitor	2
Antiendotoxic	2
Anticold	2
Antimenorrhagic	2
AntiAGE	2
Tumorigenic	2
Anticirrhotic	2
Insecticide	2
Antistomatitic	2
Parasympathomimetic	2
Antiprolactin	2
Antigingivitic	2
Astringent	2
Antipodriac	2
Clastogenic	2
Antigallstone	2
Cytoprotective	2
Antianginal	2
Prostaglandin-Synthesis-Inhibitor	2
Cholagogue	2
Metal-Chelator	2

Activity	Chemical Count
Leucocytogenic	2
Antitriglyceride	2
Proliferant	2
MAO-Inhibitor	2
Antiexudative	2
Urinary-Acidulant	1
Antidyspeptic	1
Antiototic	1
Antithyreotropic	1
Essential	1
Potassium-Sparing	1
Antiinsomnic	1
Cardiotoxic	1
Absorbent	1
Antienterotic	1
Antivaginitic	1
Humectant	1
Sodium-Sparing	1
Copper-Antagonist	1
Antihematuric	1
Calcium-Antagonist?	1
Interleukin-1-alpha-Inhibitor	1
Tyrosine-Kinase-Inhibitor	1
Antidote (Mercury)	1
Antiophthalmic	1
Emollient	1
Phospholipase-Inhibitor	1

Activity	Chemical Count
Antiberiberi	1
Antiimpotence	1
Antiprotozoal	1
Colorant	1
Antiadenomic	1
Antigranular	1
Trichomonicide	1
Antinyctalopic	1
Hepatocarcinogenic	1
Respirastimulant	1
Antichilblain	1
Antimanic	1
Antiproliferative	1
Coleoptophile	1
Mydriatic	1
Antiglossitic	1
ATPase-Inhibitor	1
Immunosuppressant	1
Antineurotic	1
Antispasmophilic	1
Antiarabiflavinotic	1
Gram(+)-icide	1
Antilupus	1
Androgenic	1
Antineuramidase	1
Antishingles	1
Osteogenic	1

Activity	Chemical Count
Gastroprotective	1
Anticarcinomic (Breast)	1
Antiplatelet	1
Artemicide	1
Testosteronigenic	1
Antitubercular	1
Fistula-Preventive	1
Anticancer (Skin)	1
Antipharyngitic	1
Cerebrostimulant	1
Mast-Cell-Stabilizer	1
Antimycontractant	1
Antiscorbutic	1
Capillarifortificant	1
Uterotonic	1
Antitic	1
Estrogenic?	1
Preservative	1
Anticancer (Cervix)	1
Antikeratitic	1
Caspase-8-Inducer	1
Antivertigo	1
Spermicide	1
Antiretinotic	1
Calmodulin-Antagonist	1
Interleukin-6-mRNA-Inhibitor	1
Antidysgeuzic	1

Activity	Chemical Count
Antithrombic	1
Energizer	1
PKC-Inhibitor	1
AntiBPH	1
Cardiomyopathogenic	1
Lipotropic	1
5-HT-Inhibitor	1
Serotonergic	1
Anticoeliac	1
AntiGTF	1
Bradycardiac	1
Trypanocide	1
Antidote (Iodine)	1
Antiobesity?	1
Antihypoglycemic	1
Schizophrenogenic	1
Antichoreic	1
Antimastitic	1
Antiprostanoid	1
Collagenase-Inhibitor	1
Antiacrodermatitic	1
Antigonadotrophic	1
Antidiarrheic	1
Antisteatotic	1
Diaphoretic?	1
Paralytic	1
Hemolytic	1

Activity	Chemical Count
Antiprogestational	1
Musculotropic	1
Angiogenic	1
Antigenotoxic	1
Antineuritic	1
Antisilicotic	1
P21-Inducer	1
Antihydrophobic	1
Glucosyl-Transferase-Inhibitor	1
Antilipolytic	1
Antipneumonic	1
Circulotonic	1
Amphiglycemic?	1
Antifuruncular	1
Asthma-preventive	1
Ileorelaxant	1
Thyroid-Peroxidase-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Nodulation-Signal	1
Antiherpetic?	1
Antitumor (Bladder)	1
Prostaglandin-Sparer	1
Antipityriasic	1
Memory-Enhancer	1
Taenicide	1
Anticystinuric	1
Antinephrolytic	1

Activity	Chemical Count
Leptingenic	1
Varroacide	1
Antiozenic	1
Antitourette	1
Fatal	1
Progestational	1
Anticancer (Forestomach)	1
Antipermeability	1
Cataractagenic	1
Acidifier	1
Antiviral?	1
Succinoxidase-Inhibitor	1
Antimutilation	1
Antirhinitic	1
Uricosuric	1
Antidysmenorrhic	1
Antiosteotic	1
Antithromboxane	1
Erythrocytogenic	1
Anticalculic	1
Abortifacient	1
Antienteritic	1
Antivaccinia	1
HIV-RT-Inhibitor	1
Soap	1
Contraceptive	1
Antiheartburn	1

Activity	Chemical Count
Tyrosinase-Inhibitor	1
Antidote (Manganese)	1
Antiileus	1
Hepatotoxic	1
Secretomotor	1
Anticlastogen	1
Collyrium	1
Myoprotective	1
AntiADD	1
Antigout	1
Antistreptococcic	1
Disinfectant	1
Perfumery	1
Antihyperlipoproteinaemic	1
Hemostatic	1
Renotoxic	1
Cold-preventive	1
Mycobactericide	1
Atherogenic	1
Antidermatic	1
P450-Inhibitor	1
Antiapoplectic	1
Antitumor (Gastric)	1
Gonadotrophic	1
Purgative	1
Antigastric	1
Antiserotoninic	1

Activity	Chemical Count
Prostaglandin-Synthetase-Inhibitor	1
Antileukoplakic	1
Metal-Chelator (Copper)	1
Hypouricemic	1
Teratologic	1
Antihepatomic	1
Fibrinolytic	1
AntiPGE2	1
Cerebrophilic	1
Additive	1
Antixerophthalmic	1
Suppository	1
AntiCTS	1
Antisclerodermic	1
NO-Genic	1
Uterorelaxant	1
Antidysphagic	1
Antioxalate	1
Poultice	1
Anticancer (Breast)	1
Antiperiodontic	1
Cardiovascular	1
Acaricide	1
Antimitral-valve-prolapse	1
Copper-Chelator	1
Nephrotoxic	1
Antiakathisic	1

Activity	Chemical Count
Calcium-Channel-Blocker	1
Interleukin-6-Inhibitor	1
Antidote (Paraquat)	1
Antiorchitic	1
Encephalopathic	1
Antiinfective	1
Antipapillomic	1
HIF-1alpha-Inhibitor	1
Sequestrant	1
AntiMeniere's	1
Comedolytic	1
Myotonic	1
Antiadenoviral	1
Antigranulocytopenic	1
Bitter	1
Insulinic	1
Triglycerigenic	1
DNA-Active	1
Peroxynitrite-Scavenger	1
Antiatheromic	1
Reverse-Transcriptase-Inhibitor	1
Anticholestatic	1
Antimastalgic	1
Myocardiotoxic	1
Antiacrocyanotic	1
Antiglycosuric	1
Autotoxic	1

Activity	Chemical Count
AntiNF-kB	1
Detoxicant (Alcohol)	1
Antihyperkeratotic	1
Antitumor (Liver)	1
Gram(-)-icide	1
Antiporphyrin	1
CNS-Paralytic	1
Mucolytic	1
Androgenic?	1
Antideliriant	1
Antineurasthenic	1
Antishock	1
Antianorexic	1
Antihomocysteine	1
Antitumor (CNS)	1
Glucogonogenic	1
Anticardiospasmic	1
Antileukotriene-D4	1
Cholinergic	1
Metastatic	1
Alpha-Amylase-Inhibitor	1
Arteriodilator	1
Thymoprotective	1
Antiscotomic	1
Cytochrome-P450-1A1-Inhibitor	1
Flatugenic	1
Prostaglandigenic	1

Activity	Chemical Count
Cerebrotonic	1
Aggregant	1
AP-1-Inhibitor	1
Hypolipemic	1
Capillarigenic	1
Laxative?	1
Uterotrophic	1
Antitinnitic	1
Expectorant	1
Priapistic	1
Antikeshan	1
Lyase-Inhibitor	1
Acetylcholinergic	1
Spermigenic	1
Anticorneotic	1
Neurotoxic	1
cAMP-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Uricogenic	1
Ergogenic	1
Plasmodicide	1
Antibradiquinic	1
Antiparotitic	1
Lipoxygenase-1-Inhibitor	1
Vasorelaxant	1
Antiurethrotic	1
Histaminic	1

Activity	Chemical Count
Sialogogue	1
COMT-Inhibitor	1
Natriuretic	1
Bronchodilator	1
Interferon-Synergist	1
Antionychyotic	1
Dye	1
PGE2-Inhibitor	1
Antibackache	1
Antiichthyotic	1
Antitumor (Thyroid)	1
Hepatotonic	1
Secretogogue	1
Antimeasles	1
Antiprostataadenomic	1
Myopic	1
Antiacrodynic	1
Antidiscotic	1
Antinitrosic	1
Refrigerant	1
Co-carcinogenic	1
Tissue-Thromboplastin-Inhibitor	1
Antineurogenic	1
Antispare-Tire	1
Depressant	1
P450-Inducer	1
Antiaphthic	1

Activity	Chemical Count
Antihyperactivity	1
Antitumor (Forestomach)	1
Goitrogenic	1
Anticarpal-Tunnel	1
Miotic	1
Anabolic	1
Antinesidioblastosic	1
Odontolytic	1
Antihiccup	1
FPTase-Inhibitor	1
Antileukonychic	1
Antifibromyalgic	1
Teratogenic	1
Anticystitic	1
Antihepatoadenomic	1
Capillaritonic	1
Antipancreatic	1
Febrifuge	1
Anticancer (Liver)	1
Antilactagogue	1
Cathartic	1
Acidulant	1
Antiwrinkle	1
Hyperuricemic	1
Antimyalgic	1
Antisarcomic	1
Cyanogenic	1