

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

Activity	Chemical Count
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	3
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	2
Abortifacient	1
Absorbent	1
Acaricide	1
ACE-Inhibitor	7
Acetylcholinergic	1
Acidifier	1
Acidulant	1
Additive	1
Adrenergic	3
Aggregant	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	12
Allelochemic	6
Allergenic	8
Alpha-Amylase-Inhibitor	1
Amphiglycemic?	1
Anabolic	1
Analgesic	12
Androgenic	1
Androgenic?	1
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	2

Activity	Chemical Count
Antiacne	6
Antiacrocyanotic	1
Antiacrodermatitic	1
Antiacrodynic	1
AntiADD	1
Antiadenomic	1
Antiadenoviral	1
Antiaflatoxin	2
AntiAGE	2
Antiaggregant	13
Antiaging	9
Antiakathisic	1
Antialcoholic	5
Antiallergic	11
Antialopepic	6
Antialzheimeran	7
Antiamblyopic	2
Antianaphylactic	5
Antiandrogenic	3
Antianemic	4
Antianginal	2
Antiangiogenic	6
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiaphthic	1
Antiapoplectic	1

Activity	Chemical Count
Antiarabiflavivotic	1
Antiarrhythmic	9
Antiarteriosclerotic	2
Antiarthritic	14
Antiasthmatic	6
Antiatherogenic	4
Antiatheromic	1
Antiatherosclerotic	11
Antibackache	1
Antibacterial	22
Antiberiberi	1
Antibiotic	2
AntiBPH	1
Antibradiquinic	1
Anticalculic	1
Anticancer	5
Anticancer (Breast)	1
Anticancer (Cervix)	1
Anticancer (Colon)	2
Anticancer (Forestomach)	1
Anticancer (Liver)	1
Anticancer (Lung)	2
Anticancer (Skin)	1
Anticanker	3
Anticapillary-Fragility	4
Anticarcinogenic	3
Anticarcinomic	4

Activity	Chemical Count
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	4
Anticarpal-Tunnel	1
Anticataract	10
Anticellulitic	2
Anticephalagic	2
Anticervicaldysplastic	3
AntiCFS	3
Anticheilitic	2
Antichilblain	1
Anticholestatic	1
Antichoreic	1
Anticirrhotic	2
Anticlastogen	1
Anticlimacteric	4
Anticoagulant	2
Anticoeliac	1
Anticold	2
Anticolitic	3
Anticomplement	2
Anticomplementary	5
Anticonvulsant	3
Anticorneotic	1
Anticoronary	5
AntiCrohn's	3
AntiCTS	1

Activity	Chemical Count
AntiCVI	2
AntiCVS	2
Anticystinuric	1
Anticystitic	1
Antidandruff	2
Antidecubitic	3
Antideliriant	1
Antidementia	6
Antidepressant	8
Antidermatic	1
Antidermatitic	9
Antidiabetic	18
Antidiarrheic	1
Antidiscotic	1
Antidiuretic	2
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Iodine)	1
Antidote (Lead)	3
Antidote (Manganese)	1
Antidote (Mercury)	1
Antidote (Paraquat)	1
Antidysgeuzic	1
Antidyskinetic	2
Antidysmenorrhic	1
Antidyspeptic	1
Antidysphagic	1

Activity	Chemical Count
AntiEBV	5
Antieczemic	3
Antiedemic	14
Antielastase	3
Antiencephalitic	2
Antiencephalopathic	2
Antiendometriotic	2
Antiendotoxic	2
Antienteritic	1
Antienterotic	1
Antiepileptic	4
Antierythemic	4
Antiescherichic	3
Antiestrogenic	4
Antiexudative	2
Antifatigue	6
Antifeedant	8
Antifertility	2
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	2
Antifibrotic	3
Antiflu	6
Antifuruncular	1
Antigallstone	2
Antigastric	1
Antigastritic	4

Activity	Chemical Count
Antigastrotic	2
Antigenotoxic	1
Antigingivitic	2
Antiglaucomic	4
Antiglossitic	1
Antiglycosuric	1
Antigonadotrophic	1
Antigonadotropic	3
Antigout	1
Antigranular	1
Antigranulocytopenic	1
AntiGTF	1
Antihangover	4
Antiheartburn	1
Antihematuric	1
Antihemolytic	2
Antihemorrhagic	2
Antihemorrhoidal	3
Antihepatitic	4
Antihepatoadenomic	1
Antihepatomic	1
Antihepatotoxic	11
Antiherpetic	10
Antiherpetic?	1
Antihiccup	1
Antihistaminic	17
AntiHIV	15

Activity	Chemical Count
Antihomocysteine	1
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	2
Antihyperglycemic	3
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipidemic	3
Antihyperlipoproteinaemic	1
Antihypertensive	8
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyotic	1
Antiileus	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	26
Antiinsomniac	4
Antiinsomnic	1
Antiischemic	3
Antikeratitic	1
Antikeshan	1
Antiketotic	2
Antilactagogue	1
AntiLegionella	2
Antileishmanic	3

Activity	Chemical Count
Antileptic	2
Antileukemic	11
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	6
Antileukotriene-D4	1
Antilipolytic	1
Antilipoperoxidant	5
Antilithic	4
Antilupus	1
AntiLyme	5
Antilymphomic	4
Antimaculitic	4
Antimalarial	5
Antimanic	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	5
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	2
Antimetastatic	7
Antimigraine	4
Antimitral-valve-prolapse	1
AntiMS	2

Activity	Chemical Count
Antimutagenic	17
Antimutilation	1
Antimyalgic	1
Antimyocarditic	2
Antimycontractant	1
Antinephritic	3
Antinephrolytic	1
Antinesidioblastosic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineurogenic	1
Antineuropathic	2
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	3
Antinitrosic	1
Antinociceptive	6
Antinyctalopic	1
Antiobesity	7
Antiobesity?	1
Antionychyotic	1
Antiophidic	2
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	2

Activity	Chemical Count
Antiosteoporotic	8
Antiosteotic	1
Antiototic	1
Antioxalate	1
Antioxidant	32
Antioxidant Synergist	2
Antiozenic	1
Antipancreatic	1
Antipanniculopathic	2
Antipapillomic	1
Antiparkinsonian	5
Antiparotitic	1
Antipellagic	2
Antiperiodontal	3
Antiperiodontic	1
Antiperiodontitic	3
Antiperistaltic	2
Antipermeability	1
Antiperoxidant	10
AntiPGE2	1
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplatelet	6
Antiplasmodial	3
Antiplatelet	1
AntiPMS	5

Activity	Chemical Count
Antipneumonic	1
Antipodriac	2
Antipolio	3
Antipoliomyelitic	2
Antiporphyric	1
Antiprogestational	1
Antiprolactin	2
Antiproliferant	8
Antiproliferative	1
Antiprostaglandin	5
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	4
Antiprotozoal	1
Antipsoriac	2
Antipurpuric	2
Antipyretic	4
Antiradicular	12
AntiRaynaud's	4
Antiretinopathic	2
Antiretinotic	1
Antirheumatic	6
Antirhinitic	1
Antisarcomic	1
Antisclerodermic	1
Antiscorbatic	1
Antiscotomic	1

Activity	Chemical Count
Antiseborrheic	3
Antiseptic	8
Antiserotoninic	1
Antishingles	1
Antishock	1
Antisilicotic	1
Antispare-Tire	1
Antispasmodic	12
Antispasmophilic	1
Antistaphylococcic	3
Antisteatotic	1
Antistomatitic	2
Antistreptococcic	1
Antistress	5
Antistroke	3
Antisunburn	3
Antisyndrome-X	6
Antitachycardic	2
AntiTGF-beta	2
Antithiamin	2
Antithrombic	1
Antithrombogenic	2
Antithromboxane	1
Antithyreotropic	1
Antithyroid	5
Antitic	1
Antitinnitic	1

Activity	Chemical Count
Antitourette	1
Antitriglyceride	2
Antitrypanosomic	3
Antitubercular	1
Antitumor	15
Antitumor (Bladder)	1
Antitumor (brain)	3
Antitumor (Breast)	7
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	7
Antitumor (Forestomach)	1
Antitumor (Gastric)	1
Antitumor (Kidney)	2
Antitumor (Liver)	1
Antitumor (Lung)	10
Antitumor (Ovary)	4
Antitumor (Pancreas)	2
Antitumor (Prostate)	3
Antitumor (Skin)	5
Antitumor (Stomach)	3
Antitumor (Thyroid)	1
Antitumor-Promoter	5
Antitussive	4
Antiulcer	13
Antiulcerogenic	2
Antiurethrotic	1

Activity	Chemical Count
Antivaccinia	1
Antivaginitic	1
Antivaricose	2
Antivertigo	1
Antiviral	22
Antiviral?	1
Antiwrinkle	1
Antixerophthalmic	1
Anxiolytic	8
AP-1-Inhibitor	1
Aphidifuge	2
Apoptotic	7
Aromatase-Inhibitor	4
Artemicide	1
Arteriodilator	1
Asthma-preventive	1
Astringent	2
Atherogenic	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	3
Beta-Adrenergic Receptor Blocker	5
Beta-Blocker	4
Beta-Glucuronidase-Inhibitor	6
Bitter	1
Bradycardiac	1
Bronchodilator	1

Activity	Chemical Count
Calcium-Antagonist	6
Calcium-Antagonist?	1
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Inhibitor	1
cAMP-Phosphodiesterase-Inhibitor	4
Cancer-Preventive	31
Candidicide	5
Capillarifortificant	1
Capillarigenic	1
Capillariprotective	4
Capillaritonic	1
Carcinogenic	4
Cardiodepressant	2
Cardiomyopathogenic	1
Cardioprotective	13
Cardiotonic	10
Cardiotoxic	1
Cardiovascular	1
Caspase-8-Inducer	1
Catabolic	2
Cataractagenic	1
Cathartic	1
Cerebrophilic	1
Cerebrostimulant	1
Cerebrotonic	1
Chemopreventive	6

Activity	Chemical Count
Cholagogue	2
Choleretic	8
Choline-Sparing	2
Cholinergic	1
Circulotonic	1
Clastogenic	2
CNS-Active	2
CNS-Depressant	4
CNS-Paralytic	1
CNS-Stimulant	2
Co-carcinogenic	1
Cold-preventive	1
Coleoptophile	1
Collagen-Sparing	2
Collagenase-Inhibitor	1
Collagenic	3
Collyrium	1
Colorant	1
Comedolytic	1
COMP-Inhibitor	2
COMT-Inhibitor	1
Contraceptive	1
Copper-Antagonist	1
Copper-Chelator	1
Cosmetic	3
COX-1-Inhibitor	5
COX-2-Inhibitor	8

Activity	Chemical Count
Cyanogenic	1
Cyclooxygenase-Activator	2
Cyclooxygenase-Inhibitor	6
Cytochrome-P450-1A1-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	2
Cytotoxic	8
Deiodinase-Inhibitor	3
Demulcent	2
Deodorant	2
Depressant	1
Dermatitigenic	2
Detoxicant	2
Detoxicant (Alcohol)	1
Diaphoretic?	1
Differentiator	3
Disinfectant	1
Diuretic	19
DNA-Active	1
DNA-Protective	2
Dye	1
Elastase-Inhibitor	3
Emollient	1
Encephalopathic	1
Energizer	1
Ergogenic	1
Erythrocytogenic	1

Activity	Chemical Count
Essential	1
Estrogenic	4
Estrogenic?	1
Expectorant	1
Fatal	1
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
Flatugenic	1
FLavor	5
FPTase-Inhibitor	1
Fungicide	6
Gastroprotective	1
Glucogonogenic	1
Glucosyl-Transferase-Inhibitor	1
Goitrogenic	1
Gonadotrophic	1
Gram(+)icide	1
Gram(-)icide	1
Hemolytic	1
Hemostat	7
Hemostatic	1
Hepatocarcinogenic	1
Hepatomagenic	2
Hepatoprotective	15
Hepatotonic	1
Hepatotoxic	1

Activity	Chemical Count
Hepatotropic	2
HIF-1alpha-Inhibitor	1
Histamine-Inhibitor	2
Histaminic	1
HIV-RT-Inhibitor	1
Humectant	1
Hyaluronidase-Inhibitor	5
Hypercholesterolemic	3
Hyperglycemic	2
Hypertensive	7
Hyperuricemic	1
Hypocholesterolemic	18
Hypoglycemic	14
Hypolipemic	1
Hypolipidemic	2
Hypotensive	18
Hypouricemic	1
ICAM-1-Inhibitor	2
IKK-Inhibitor	2
Ileorelaxant	1
Immunomodulator	13
Immunostimulant	11
Immunosuppressant	1
iNOS-Inhibitor	3
Inotropic	3
Insecticide	2
Insectifuge	6

Activity	Chemical Count
Insectiphile	2
Insulinic	1
Insulinogenic	6
Interferon-Synergist	1
Interferonogenic	2
Interleukin-1-alpha-Inhibitor	1
Interleukin-6-Inhibitor	1
Interleukin-6-mRNA-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	3
Juvabional	3
Larvostat	3
Laxative	5
Laxative?	1
Leptogenic	1
Leucocytogenic	2
Leukotriene-Inhibitor	2
Lipolytic	2
Lipotropic	1
Lipoxygenase-1-Inhibitor	1
Lipoxygenase-Inhibitor	11
Lithogenic	3
Litholytic	2
Lubricant	2
Lyase-Inhibitor	1
MAO-A-Inhibitor	2
MAO-Inhibitor	2

Activity	Chemical Count
MAPK-Inhibitor	2
Mast-Cell-Stabilizer	1
Memorigenic	2
Memory-Enhancer	1
Metal-Chelator	2
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	2
Metastatic	1
Microvasculokinetic	2
Miotic	1
MMP-9-Inhibitor	3
Mucogenic	2
Mucolytic	1
Musculotropic	1
Mutagenic	3
Mycobactericide	1
Mydriatic	1
Myocardiotoxic	1
Myocontractant	2
Myopic	1
Myoprotective	1
Myorelaxant	5
Myotonic	1
NADH-Oxidase-Inhibitor	2
Natriuretic	1
Nematicide	2
NEP-Inhibitor	2

Activity	Chemical Count
Nephrotoxic	1
Neuroprotective	3
Neurotoxic	1
Neurotransmitter	3
NF-kB-Inhibitor	6
NO-Genic	1
NO-Inhibitor	4
NO-Synthase-Inhibitor	2
Nodulation-Signal	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	7
Osteogenic	1
Oviposition-Stimulant	2
P21-Inducer	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	2
Pancreatogenic	2
Paralytic	1
Parasympathomimetic	2
Perfumery	1
Peristaltic	2
Peroxynitrite-Scavenger	1
Pesticide	29
PGE2-Inhibitor	1
Phagocytotic	3
Phospholipase-Inhibitor	1

Activity	Chemical Count
Piscicide	2
PKC-Inhibitor	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	2
Potassium-Sparing	1
Poultice	1
Preservative	1
Priapistic	1
Progestational	1
Proliferant	2
Prooxidant	3
Propecic	6
Prostaglandigenic	1
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	2
Prostaglandin-Synthetase-Inhibitor	1
Protease-Inhibitor	2
Protein-Kinase-C-Inhibitor	4
Protisticide	2
PTK-Inhibitor	3
Purgative	1
Pyrogenic	2
Quinone-Reductase-Inducer	4
Radioprotective	2
Refrigerant	1
Renotoxic	1
Respirastimulant	1

Activity	Chemical Count
Reverse-Transcriptase-Inhibitor	1
Schizophrenigenic	1
Secretagogue	1
Secretomotor	1
Sedative	5
Sequestrant	1
Serotonergic	1
Sialogogue	1
Soap	1
Sodium-Sparing	1
Spasmogenic	2
Spermicide	1
Spermigenic	1
Succinoxidase-Inhibitor	1
Sunscreen	7
Suppository	1
Sweetener	3
Sympathomimetic	3
Taenicide	1
Teratogenic	1
Teratologic	1
Testosteronigenic	1
Thymoprotective	1
Thyroid-Peroxidase-Inhibitor	1
Tissue-Thromboplastin-Inhibitor	1
TNF-alpha-Inhibitor	4
TOPO-2-Inhibitor	2

Activity	Chemical Count
Topoisomerase-I-Inhibitor	3
Topoisomerase-II-Inhibitor	3
Toxic	3
Tranquilizer	2
Trichomonicide	1
Triglycerigenic	1
Trypanocide	1
Tumorigenic	2
Tyrosinase-Inhibitor	1
Tyrosine-Kinase-Inhibitor	1
Ubiquitot	2
Ulcerogenic	2
Uricogenic	1
Uricosuric	1
Urinary-Acidulant	1
Uterorelaxant	1
Uterotonic	1
Uterotrophic	1
Varroacide	1
Vasoconstrictor	5
Vasodilator	16
Vasopressor	5
Vasoprotective	2
Vasorelaxant	1
VEGF-Inhibitor	4
Vulnerary	6
Xanthine-Oxidase-Inhibitor	11