

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Sambucus nigra**

<b>Activity</b>	<b>Chemical Count</b>
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	5
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	2
Abortifacient	1
Acaricide	3
ACE-Inhibitor	5
Acetylcholinergic	1
AChE-Inhibitor	1
Acidulant	2
Addictive	1
Aggregant	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	14
Allelochemic	4
Allelopathic	4
Allergenic	13
Alpha-Amylase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Analgesic	16
Androgenic	1
Androgenic?	1
Anemiagenic	1
Anesthetic	4
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	1

Activity	Chemical Count
Anthelmintic	2
Antiacetylcholinesterase	4
Antiacne	6
Antiacrodermatitic	1
Antiacyrodynic	1
Antiadenomic	2
Antiadenoviral	1
Antiaflatoxin	2
AntiAGE	1
Antiaggregant	8
Antiaging	5
Antiakathisic	1
Antialcoholic	5
Antiallergic	11
Antialopepic	5
Antialzheimeran	7
Antialzheimeran?	1
Antiamblyopic	1
Antianaphylactic	3
Antiandrogenic	4
Antianemic	3
Antianginal	2
Antiangiogenic	3
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiaphthic	1

Activity	Chemical Count
Antiapoplectic	1
Antiarabiflavivotic	1
Antiarrhythmic	6
Antiarteriosclerotic	1
Antiarthritic	10
Antiasthmatic	7
Antiatherogenic	2
Antiatheromic	1
Antiatherosclerotic	9
Antibacillus	1
Antibackache	1
Antibacterial	29
Antiberiberi	1
AntiBPH	1
Antibronchitic	1
Anticalculic	1
Anticancer	13
Anticancer (Breast)	1
Anticancer (Cervix)	1
Anticancer (Colon)	3
Anticancer (Forestomach)	2
Anticancer (Liver)	2
Anticancer (Lung)	1
Anticancer (Skin)	2
Anticanker	3
Anticapillary-Fragility	2
Anticarcinogenic	3

Activity	Chemical Count
Anticarcinomic	5
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	7
Anticarpal-Tunnel	1
Anticataract	7
Anticephalagic	2
Anticervicaldysplasic	3
AntiCFS	2
Anticheilitic	2
Antichilblain	2
Anticholestatic	1
Antichoreic	1
Anticirrhotic	1
Anticlastogen	2
Anticlimacteric	3
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolic	1
Anticolitic	3
Anticomplement	2
Anticomplementary	1
Anticonvulsant	6
Anticoronary	4
AntiCrohn's	4
AntiCTS	1

Activity	Chemical Count
AntiCVI	1
Anticystinuric	1
Anticystitic	1
Antidandruff	2
Antidecubitic	3
Antideliriant	1
Antidementia	6
Antidepressant	7
Antidepressant?	1
Antidermatitic	5
Antidiabetic	13
Antidiarrheic	2
Antidiscotic	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Lead)	2
Antidote (Paraquat)	1
Antidote (pesticides)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	2
Antidysmenorrhic	2
Antidyspeptic	1
Antidysphagic	1
AntiEBV	3
Antieczemic	3
Antiedemic	12

Activity	Chemical Count
Antielastase	4
Antiencephalitic	2
Antiencephalopathic	3
Antiendometriotic	2
Antienteritic	1
Antienterotic	1
Antiepileptic	4
Antierhythmic	1
Antiescherichic	4
Antiesophagitic	1
Antiestrogenic	3
Antifatigue	4
Antifeedant	8
Antifertility	4
Antifibrinolytic	2
Antifibromyalgic	2
Antifibrosarcomic	2
Antifibrotic	2
Antiflu	6
Antifuruncular	1
Antigallstone	2
Antigastric	1
Antigastritic	3
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	3
Antiglaucomic	3

Activity	Chemical Count
Antiglossitic	1
Antiglutamaergic	1
Antigonadotrophic	1
Antigonadotropic	3
Antigranular	1
AntiGTF	1
Antihalitotic	1
Antihangover	5
Antiheartburn	1
Antihelicobacter	1
Antihematuric	1
Antihemolytic	2
Antihemorrhagic	1
Antihemorrhoidal	1
Antihepatitic	1
Antihepatoadenomic	1
Antihepatotoxic	15
Antiherpetic	8
Antiherpetic?	1
Antihiccup	1
Antihistaminic	11
AntiHIV	9
Antihomocysteine	1
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	2
Antihyperglycemic	1

Activity	Chemical Count
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipidemic	2
Antihyperlipoproteinaemic	1
Antihypertensive	8
Antihyperthyroid	2
Antihypoglycemic	1
Antiichthyotic	1
Antiimplantation	1
Antiimpotence	1
Antiinfective	1
Antiinfertility	2
Antiinflammatory	28
Antiinsomniac	3
Antiinsomnic	1
Antiischemic	2
Antikeratitic	1
Antiketotic	2
AntiLegionella	2
Antileishmanic	3
Antileptic	2
Antileukemic	11
Antileukonychic	1
Antileukoplakic	1
Antileukorrhic	1
Antileukotriene	4
Antileukotriene-D4	2



Activity	Chemical Count
Antilipolytic	1
Antilipoperoxidant	2
Antilisteria	1
Antilithic	5
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	5
Antimaculitic	3
Antimalarial	6
Antimange	1
Antimanic	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	2
Antimelanomic	3
AntiMeniere's	1
Antimenopausal	3
Antimenorrhagic	2
Antimetastatic	5
Antimetastatic (Stomach)	1
Antimigraine	4
Antimite	1
Antimitotic	1
Antimitral-valve-prolapse	1
AntiMS	2

Activity	Chemical Count
Antimutagenic	18
Antimyalgic	1
Antimyocarditic	2
Antinauseant	1
Antineoplastic	1
Antinephritic	4
Antinephrolytic	1
Antineuralgic	4
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	2
Antineurotic	1
Antinitrosaminic	6
Antinitrosic	1
Antinociceptive	10
Antinyctalopic	1
Antiobesity	6
Antiobesity?	1
Antiodontalgic	2
Antiophidic	4
Antiophthalmic	1
Antiorchitic	1
Antiosteoarthritic	1
Antiosteoporotic	6
Antiototic	1
Antioxalate	1

Activity	Chemical Count
Antioxidant	30
Antioxidant Synergist	3
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	3
Antiparotitic	1
Antipellagic	2
Antipeptic	1
Antiperiodontal	1
Antiperiodontic	2
Antiperiodontitic	3
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	8
AntiPGE2	1
Antipharyngitic	1
Antiphenylketonuric	1
Antiphotophobic	2
Antipityriasic	1
Antiplaque	5
Antiplasmodial	4
Antiplaquet	1
AntiPMS	5
Antipneumonic	1
Antipodriac	2
Antipolio	3

Activity	Chemical Count
Antipoliomyelitic	2
Antiporphyric	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	5
Antiproliferative	1
Antiprostaglandin	3
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	4
Antiprotozoal	1
Antipruritic	2
Antipsoriac	2
Antipurpuric	1
Antipyretic	3
Antiradicular	12
AntiRaynaud's	3
Antirenitic	1
Antiretinopathic	1
Antiretinotic	1
Antirheumatalgic	1
Antirheumatic	7
Antirhinitic	1
Antisalmonella	2
Antisarcomic	1
Antischizophrenic	1
Antiscorbutic	1

Activity	Chemical Count
Antiscotomic	1
Antiseborrheic	3
Antiseptic	20
Antiserotonin	2
Antishingles	1
Antishock	1
Antisinusitic	1
Antispare-Tire	1
Antispasmodic	18
Antispasmophilic	1
Antistaphylococcic	5
Antisteatotic	1
Antistomatitic	2
Antistreptococcic	3
Antistress	4
Antistroke	2
Antisunburn	3
Antisyndrome-X	4
Antitartar	1
AntiTGF-beta	2
Antithiamin	2
Antithrombic	2
Antithrombogenic	1
Antithromboxane	1
Antithyroid	3
Antithyrototoxic	1
Antitic	1

Activity	Chemical Count
Antitinnitic	1
Antitriglyceride	1
Antitrypanosomic	3
Antitubercular	2
Antitumor	22
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	6
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	8
Antitumor (Fore stomach)	2
Antitumor (Gastric)	1
Antitumor (Kidney)	1
Antitumor (Liver)	2
Antitumor (Lung)	6
Antitumor (Ovary)	2
Antitumor (Pancreas)	2
Antitumor (Prostate)	3
Antitumor (Skin)	4
Antitumor (Stomach)	3
Antitumor-Promoter	10
Antitussive	3
Antiulcer	17
Antiulcerogenic	1
Antiurethrotic	1
Antivaccinia	1

Activity	Chemical Count
Antivaginitic	2
Antivaricose	2
Antivertigo	1
Antiviral	20
Antiviral?	1
Antivulvitic	1
Antiwrinkle	1
Antixerophthalmic	1
Antixerotic	1
Anxiolytic	5
Aphidifuge	1
Apoptotic	7
Aromatase-Inhibitor	3
Artemicide	2
Arteriodilator	1
Asthma-preventive	1
Astringent	1
Atherogenic	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteriostatic	1
Bacteristat	3
Barbituate-Synergist	1
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	4
Beta-Glucuronidase-Inhibitor	3
Bradycardiac	1

Activity	Chemical Count
Bradycardic	1
Bronchomucolytic	1
Bronchomucotropic	1
Bronchoprotectant	1
Bronchorelaxant	1
Bronchorrheic	1
Bruchifuge	1
Bruchiphobe	1
Calcium-Antagonist	5
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Inhibitor	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	29
Candidicide	8
Candidistat	2
Capillarifortificant	1
Capillarigenic	2
Capillariprotective	2
Carcinogenic	7
Cardiac	1
Cardiodepressant	1
Cardioprotective	8
Cardiotonic	2
Cardiotoxic	1
Carminative	2
Caspase-8-Inducer	1



Activity	Chemical Count
Catabolic	2
Cerebrotonic	1
Chelator	1
Chemopreventive	8
Cholagogue	3
Choleretic	9
Cholesterolytic	1
Cholinergic	1
Cicatrizant	1
Ciliotoxic	1
Circulotonic	1
Clastogenic	2
CNS-Active	2
CNS-Depressant	4
CNS-Paralytic	1
CNS-Stimulant	2
Co-carcinogenic	1
Cold-preventive	1
Collagen-Sparing	2
Collagenic	2
Collyrium	1
Colorant	1
Comedolytic	1
COMT-Inhibitor	1
Congestant	1
Convulsant	1
Copper-Antagonist	1

Activity	Chemical Count
Copper-Chelator	2
Cosmetic	4
Counterirritant	1
COX-1-Inhibitor	2
COX-2-Inhibitor	7
Culicide	1
Cyanogenic	2
Cyclooxygenase-Activator	1
Cyclooxygenase-Inhibitor	5
Cytochrome-P450-1A2-Inhibitor	1
Cytoprotective	2
Cytotoxic	10
Decongestant?	1
Deiodinase-Inhibitor	1
Demulcent	3
Deodorant	2
Dermatitigenic	2
Detoxicant	2
Detoxicant (Alcohol)	1
Diaphoretic	2
Diaphoretic?	3
Differentiator	1
Disinfectant	1
Diuretic	14
DNA-Active	1
DNA-Protective	1
Elastase-Inhibitor	2

Activity	Chemical Count
Emetic	4
Enterocontractant	1
Enterorelaxant	1
Ergogenic	1
Estrogenic	5
Estrogenic?	1
Expectorant	4
Fatal	1
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
Flatugenic	1
FLavor	15
FPTase-Inhibitor	1
Fungicide	14
Fungiphilic	1
Fungistat	1
GABA-nergic	1
Gastroprotective	3
Gastroedative	1
Glucosyl-Transferase-Inhibitor	2
Gonadotrophic	1
GST-Inducer	1
Hemolytic	1
Hemopoietic	1
Hemostat	4
Hemostatic	1

Activity	Chemical Count
Hepatocarcinogenic	1
Hepatomagenic	2
Hepatoprotective	16
Hepatotoxic	1
Hepatotropic	2
Herbicide	3
Histamine-Inhibitor	2
Histaminic	1
HIV-RT-Inhibitor	2
Hydrocholerectic	1
Hypercholesterolemic	4
Hyperglycemic	1
Hypertensive	1
Hypnotic	1
Hypocholesterolemic	16
Hypoglycemic	9
Hypolipemic	2
Hypolipidemic	3
Hypotensive	15
Hypothermic	2
Hypouricemic	1
ICAM-1-Inhibitor	1
Ileorelaxant	2
Immunomodulator	8
Immunostimulant	9
Immunosuppressant	2
Inflammatory	1

Activity	Chemical Count
iNOS-Inhibitor	2
Inotropic	2
Insecticide	6
Insectifuge	12
Insectiphile	3
Insulinase-Inhibitor	1
Insulinogenic	3
Insulinotonic	1
Interferon-Synergist	1
Interferonogenic	2
Interleukin-6-Inhibitor	2
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	12
JNK-Inhibitor	1
Juvabional	3
Keratolytic	1
Larvicide	2
Larvostat	3
Laxative	5
Laxative?	2
Leptogenic	1
Leucocytogenic	2
Leukotriene-Inhibitor	2
Lipolytic	2
Lipotropic	1
Lipoxygenase-Inhibitor	8
Lithogenic	2

Activity	Chemical Count
Litholytic	2
Lubricant	3
Lyase-Inhibitor	1
MAO-A-Inhibitor	1
MAO-Inhibitor	2
Mast-Cell-Stabilizer	1
Memorigenic	1
Memory-Enhancer	1
Metal-Chelator	3
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	2
Monoamine-Precursor	1
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	3
Mucogenic	2
Mucolytic	1
Mutagenic	4
Mycobactericide	2
Myoprotective	1
Myorelaxant	5
NADH-Oxidase-Inhibitor	1
Narcotic	1
Natriuretic	1
Nematicide	10

Activity	Chemical Count
Neoplastic	1
NEP-Inhibitor	1
Neurodepressant	1
Neuropathogenic	1
Neuroprotective	3
Neurotransmitter	1
NF-kB-Inhibitor	3
NO-Genic	2
NO-Inhibitor	2
NO-Synthase-Inhibitor	1
Nociceptive	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	7
Osteogenic	1
Oviposition-Stimulant	2
Ovulant	1
Ozone-Scavenger	1
P450-2B1-Inhibitor	1
P450-Inducer	2
P450-Inhibitor	1
PAF-Inhibitor	2
Paralytic	1
Parasympathomimetic	1
Percutaneostimulant	1
Perfume	1
Perfumery	14
Peristaltic	2

Activity	Chemical Count
Pesticide	37
PGE2-Inhibitor	1
Phagocytotic	3
Phospholipase-A2-Inhibitor	1
Phospholipase-Inhibitor	1
Photosensitizer	1
Pigment	1
Piscicide	2
Plasmodicide	1
Potassium-Sparing	1
Preservative	2
Proliferant	1
Prooxidant	4
Propecic	4
Prostaglandigenic	3
Prostaglandin-Synthesis-Inhibitor	6
Protease-Inhibitor	1
Protein-Kinase-C-Inhibitor	1
Protisticide	3
Psychotropic	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	3
Radioprotective	1
Refrigerant	2
Renoirritant	1
Renotoxic	1
Respirapalytic	1



Activity	Chemical Count
Rubefacient	1
Sedative	11
Serotoninerpic	1
Sialogogue	1
Soap	2
Sodium-Sparing	1
Spermicide	2
Spermigenic	1
Sunscreen	4
Suppository	1
Sweetener	5
Teratologic	2
Termiticide	3
Termitifuge	1
Testosteronigenic	1
Thymoprotective	1
Tissue-Thromboplastin-Inhibitor	1
TNF-alpha-Inhibitor	3
TOPO-2-Inhibitor	2
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	5
Tranquilizer	2
Transdermal	3
Trichomonicide	3
Triglycerigenic	1
Trypanocide	1
Tumor-Promoter	1

Activity	Chemical Count
Tumorigenic	3
Tyrosinase-Inhibitor	5
Tyrosine-Kinase-Inhibitor	1
Ubiquit	3
Ulcerogenic	1
Uricogenic	1
Uricosuric	1
Urinary-Acidulant	1
Uterorelaxant	1
Uterosedative	1
Uterotonic	1
Uterotrophic	1
Varroacide	1
Vasodilator	9
Vasopressor	3
VEGF-Inhibitor	1
Vibriocide	1
Vulnerary	7
Xanthine-Oxidase-Inhibitor	4