

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Ligustrum japonicum**

<b>Activity</b>	<b>Chemical Count</b>
Pesticide	22
Antiinflammatory	16
Antiseptic	15
Antioxidant	15
Antibacterial	13
Cancer-Preventive	13
Antitumor	11
Antimutagenic	11
FLavor	11
Antispasmodic	11
Analgesic	10
Hepatoprotective	10
Fungicide	9
Diuretic	9
Insectifuge	9
Hypotensive	9
Antiviral	9
Antiedemic	8
Cytotoxic	8
Vasodilator	8
Choleretic	8
Antiarthritic	8
Antiulcer	8
Allergenic	8
Immunomodulator	7
Antidiabetic	7
Antihepatotoxic	7

Activity	Chemical Count
Antiarrhythmic	7
Antileukemic	7
Antiradicular	6
Antiaggregant	6
Sedative	6
Anesthetic	6
Antiperoxidant	6
Perfumery	6
Hypocholesterolemic	6
COX-2-Inhibitor	6
Prostaglandin-Synthesis-Inhibitor	6
Antihypertensive	5
Antitherpetic	5
Antiplateau	5
Carcinogenic	5
Tyrosinase-Inhibitor	5
Antiosteoporotic	5
Antihistaminic	5
Antitumor-Promoter	5
Antiallergic	5
Cardioprotective	5
Immunostimulant	5
Lipoxygenase-Inhibitor	5
AntiHIV	5
Candidicide	5
Antidepressant	5
Antitumor (Colon)	4

Activity	Chemical Count
Antiallopecic	4
Antinociceptive	4
Antiprostatic	4
Cyclooxygenase-Inhibitor	4
Aldose-Reductase-Inhibitor	4
Nematicide	4
Anxiolytic	4
Anticancer	4
AntiPMS	4
Antistaphylococcic	4
Laxative	4
Irritant	4
5-Alpha-Reductase-Inhibitor	4
CNS-Depressant	4
Antiatherosclerotic	4
Antimalarial	4
Propecic	4
Ornithine-Decarboxylase-Inhibitor	4
Antialcoholic	4
Antipyretic	4
Antinitrosaminic	4
Rodenticide	4
NF-kB-Inhibitor	3
Calcium-Antagonist	3
Anticoronary	3
Antifatigue	3
Aromatase-Inhibitor	3

Activity	Chemical Count
Diaphoretic?	3
Hypoglycemic	3
Cardiotonic	3
Antistress	3
Antimetastatic	3
Antiflu	3
Antitumor (Skin)	3
Antifertility	3
Beta-Blocker	3
Prostaglandigenic	3
Insulinogenic	3
Antiescherichic	3
Quinone-Reductase-Inducer	3
Antitumor (Lung)	3
Antiastrogenic	3
Antianemic	3
Antirheumatic	3
Bacteristat	3
Antieczemic	3
Antinephritic	3
Antiinsomniac	3
AntiMS	3
Antiangiogenic	3
Antiepileptic	3
Antialzheimeran	3
Emetic	3
Anticariogenic	3

Activity	Chemical Count
Antiplasmodial	3
Allelochemic	3
Hemolytic	3
ACE-Inhibitor	3
Antiandrogenic	3
Antitumor (Breast)	3
Antileukotriene	3
Antiprostaglandin	3
Antisyndrome-X	3
Vulnerary	3
Antimenopausal	2
Antifibrosarcomic	2
Antitumor (Ovary)	2
Antiperiodontic	2
5-Lipoxygenase-Inhibitor	2
Prooxidant	2
Antisalmonella	2
Tranquilizer	2
Expectorant	2
Piscicide	2
Insecticide	2
Cholagogue	2
TNF-alpha-Inhibitor	2
Motor-Depressant	2
Elastase-Inhibitor	2
Antithiamin	2
Antihangover	2

Activity	Chemical Count
Antigingivitic	2
Vasopressor	2
Parasiticide	2
Larvicide	2
Copper-Chelator	2
Anticomplement	2
Antianaphylactic	2
Trichomonicide	2
TOPO-2-Inhibitor	2
Antiobesity	2
Mutagenic	2
Anticataract	2
Phagocytotic	2
Antidysmenorrhic	2
Teratologic	2
Antithromboxane	2
Anticancer	2
Antiketotic	2
Antigonadotropic	2
Antimitotic	2
Antiasthmatic	2
Herbicide	2
Allelopathic	2
Cosmetic	2
Antianxiety	2
Anticonvulsant	2
Antihyperlipidemic	2

Activity	Chemical Count
Antilymphomic	2
Topoisomerase-II-Inhibitor	2
Estrogenic	2
Antileukotriene-D4	2
Inotropic	2
Antiaflatoxin	2
Anticarcinomic	2
Apoptotic	2
Antileishmanic	2
Chemopreventive	2
Sunscreen	2
AntiTGF-beta	2
Metal-Chelator	2
Xanthine-Oxidase-Inhibitor	2
HIV-RT-Inhibitor	2
Antidermatitic	2
Antimenorrhagic	2
Leucocytogenic	2
Antiperiodontitic	2
NO-Inhibitor	2
AntiCrohn's	2
Protisticide	2
Juvabional	2
Antifeedant	2
Tumorigenic	2
Neuroprotective	2
Gastroprotective	2

Activity	Chemical Count
Anticolitic	2
Antilithic	2
Antielastase	2
Antiaging	2
Antiacne	2
Sweetener	2
Antithrombic	2
Antiproliferant	2
Antistroke	2
Antiglaucomic	2
Hepatotropic	2
cAMP-Phosphodiesterase-Inhibitor	2
Antifibrinolytic	2
Beta-Glucuronidase-Inhibitor	2
Anticomplementary	2
Antiserotonin	2
Antiotitic	2
Antihyperkinetic	2
Anticlimacteric	2
11B-HSD-Inhibitor	2
Topoisomerase-I-Inhibitor	2
Antitrypanosomic	2
iNOS-Inhibitor	2
AntiEBV	2
Termiticide	2
MMP-9-Inhibitor	2
Anticarcinogenic	2



Activity	Chemical Count
Dermatitigenic	2
Anticancer (Colon)	2
Antistomatitic	2
Lubricant	2
Leptingenic	1
COX-1-Inhibitor	1
Antiarachidonate	1
Uricosuric	1
Hepatocarcinogenic	1
Antiincontinence	1
Adaptogenic	1
Protein-Kinase-C-Inhibitor	1
Antispare-Tire	1
Antimaculitic	1
JNK-Inhibitor	1
Contraceptive	1
Antianginal	1
Trypsin-Enhancer	1
Antioxalate	1
Nephrotoxic	1
Anticold	1
Co-carcinogenic	1
Antienterotic	1
Antionychogryphotic	1
Narcotic	1
Antihydrophobic	1
Anticheilitic	1

Activity	Chemical Count
Antilipoperoxidant	1
Antitinnitic	1
Anticarcinomic (Breast)	1
Antileptic	1
Anthelmintic	1
Suppository	1
Antinephrolytic	1
Metal-Chelator (Copper)	1
Anticancer (Liver)	1
Antiwrinkle	1
Antiprolactin	1
Antiischemic	1
Antidysgeuzic	1
MAO-A-Inhibitor	1
Deiodinase-Inhibitor	1
Antiurethrotic	1
Hydrocholerectic	1
Leukotriene-Inhibitor	1
Antiarteriosclerotic	1
Uterosedative	1
Antiperistaltic	1
NO-Synthase-Inhibitor	1
Antiinfertility	1
Calmodulin-Antagonist	1
Anticystitic	1
PTK-Inhibitor	1
Antispasmophilic	1

Activity	Chemical Count
Antimastalgic	1
Antianorectic	1
Antitumor (Kidney)	1
Antipancreatitis	1
Neurotoxic	1
Glucosyl-Transferase-Inhibitor	1
Antihypoglycemic	1
Acaricide	1
Collagenic	1
Antitumor (brain)	1
Antihyperglycemic	1
Anticlastogen	1
Potassium-Sparing	1
Antiretinopathic	1
AntiLyme	1
Clastogenic	1
Antiencephalitic	1
Antiakathic	1
Antitriglyceride	1
Enterorelaxant	1
Astringent	1
Antipsoriac	1
Antileukonychic	1
Immunosuppressant	1
Antiacrodermatitic	1
Antineurotic	1
Metastatic	1

Activity	Chemical Count
Antihemorrhoidal	1
Antiproliferative	1
Hypolipidemic	1
Carminative	1
Sodium-Sparing	1
Antisunburn	1
Antinauseant	1
Mast-Cell-Stabilizer	1
Dermal	1
Vermifuge	1
Antivaricose	1
Hyperglycemic	1
Cardiac	1
Antidote (Aluminum)	1
Litholytic	1
Cytochrome-P450-Inhibitor	1
Antigastric	1
Uterotrophic	1
P450-Inducer	1
Antidementia	1
Antimelanomic	1
Antifibromyalgic	1
Ulcerogenic	1
Antiperiodontal	1
Neurotropic	1
Hemostat	1
Antiimpotence	1

Activity	Chemical Count
Bradycardiac	1
Acetylcholinergic	1
Protease-Inhibitor	1
Antisinusitic	1
COMT-Inhibitor	1
Trypanocide	1
Antitumor (Cervix)	1
Antiototic	1
NEP-Inhibitor	1
Fumigant	1
Anticoeliac	1
Proliferant	1
Antiendometriotic	1
Antitubercular	1
Antiodontalgic	1
NADH-Oxidase-Inhibitor	1
Antihydrocoele	1
AntiCFS	1
Phytoalexin	1
Antipyruvetic	1
Testosteronigenic	1
Antitic	1
Antinitrosating	1
Mosquitocide	1
DNA-Protective	1
Antiprostanoid	1
ICAM-1-Inhibitor	1

Activity	Chemical Count
Anorexic	1
Detoxicant (Alcohol)	1
AntiGTF	1
Anticancer (Forestomach)	1
Antiviral?	1
Antipolio	1
Antidote (Lead)	1
Schizophrenigenic	1
Antistreptococcic	1
Lyase-Inhibitor	1
Antigenotoxic	1
Antiulcerogenic	1
Antipharyngitic	1
PAF-Inhibitor	1
Capillariprotective	1
Alpha-Reductase-Inhibitor	1
Antifibrotic	1
Uterorelaxant	1
Antitumor (Pancreas)	1
Hepatomagenic	1
Antiinfective	1
Calcium-Channel-Blocker	1
Aldehyde-Oxidase-Inhibitor	1
Copper-Antagonist	1
Antitumor (Forestomach)	1
Antihyperthyroid	1
Abortifacient	1

Activity	Chemical Count
Antisarcomic	1
Collagen-Sparing	1
Transdermal	1
Antitumor (Bladder)	1
Antiophidic	1
Natriuretic	1
Flatugenic	1
Antihypercholesterolemic	1
Anticholestatic	1
Plasmodicide	1
AntiRaynaud's	1
Tonic	1
AntiTNF	1
Antinyctalopic	1
Mucogenic	1
Antiherpetic?	1
Arteriodilator	1
PGE2-Inhibitor	1
Antipruritic	1
Antineuropathic	1
Metalloproteinase-Inhibitor	1
Differentiator	1
Antihemolytic	1
Anticancer (Skin)	1
Antiyeast	1
Antikeratotic	1
Hypolipemic	1

Activity	Chemical Count
Cardiotoxic	1
Antidyskinetic	1
Anemiagenic	1
Soap	1
Antimyocarditic	1
MAO-Inhibitor	1
Deodorant	1
AntiBPH	1
VEGF-Inhibitor	1
Antivaccinia	1
Hypercholesterolemic	1
Carcinogenic?	1
Antidiscotic	1
Antispastic	1
Antimigraine	1
Cytochrome-P450-1A2-Inhibitor	1
Antifuruncular	1
Uterotonic	1
Antitumor (Stomach)	1
Antipermeability	1
Antidandruff	1
Purgative	1
Antimelanogenic	1
Larvostat	1
Coronary-Dilator	1
Antianorexic	1
Tyrosine-Kinase-Inhibitor	1



Activity	Chemical Count
Antitumor (Liver)	1
Antipeptic	1
Neurotransmitter	1
Antiimplantation	1
Iodothyronine-Deiodinase-Inhibitor	1
Comedolytic	1
Antiesophagitic	1
Trichomonistat	1
Neoplastic	1
FPTase-Inhibitor	1
Preservative	1
AntiReye's	1
Antilymphocytic	1
CNS-Active	1
Antiencephalopathic	1
Antiobesity?	1
Myorelaxant	1
Ergogenic	1
Anticephalagic	1
ATPase-Inhibitor	1
Phospholipase-Inhibitor	1
Antiadenoviral	1
Antithyroid	1
DNA-Active	1
Antihepatoadenomic	1
Apifuge	1
Percutaneostimulant	1

Activity	Chemical Count
AntiLegionella	1
Catabolic	1
Angiotensin-Receptor-Blocker	1
Spermigenic	1
Antineoplastic	1
Memory-Enhancer	1
Antigranular	1
Antipodriac	1
Hypertensive	1
Cardiodepressant	1
Antidote (Cadmium)	1
Antimitral-valve-prolapse	1
Cytoprotective	1
Antigastrotic	1
Antiatherogenic	1
Varroacide	1
AntiPGE2	1
P450-Inhibitor	1
Histamine-Inhibitor	1