

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

<b>Activity</b>	<b>Chemical Count</b>
Xanthine-Oxidase-Inhibitor	2
Vulnerary	3
Vermifuge	1
VEGF-Inhibitor	1
Vasopressor	2
Vasodilator	8
Varroacide	1
Uterotrophic	1
Uterotonic	1
Uterosedative	1
Uterorelaxant	1
Uricosuric	1
Ulcerogenic	1
Tyrosine-Kinase-Inhibitor	1
Tyrosinase-Inhibitor	5
Tumorigenic	2
Trypsin-Enhancer	1
Trypanocide	1
Trichomonistat	1
Trichomonicide	2
Transdermal	1
Tranquilizer	2
Topoisomerase-II-Inhibitor	2
Topoisomerase-I-Inhibitor	2
TOPO-2-Inhibitor	2
Tonic	1
TNF-alpha-Inhibitor	2

Activity	Chemical Count
Testosteronigenic	1
Termiticide	2
Teratologic	2
Sweetener	2
Suppository	1
Sunscreen	2
Spermigenic	1
Sodium-Sparing	1
Soap	1
Sedative	6
Schizophrenigenic	1
Rodenticide	4
Quinone-Reductase-Inducer	3
Purgative	1
PTK-Inhibitor	1
Protisticide	2
Protein-Kinase-C-Inhibitor	1
Protease-Inhibitor	1
Prostaglandin-Synthesis-Inhibitor	6
Prostaglandigenic	3
Propecic	4
Prooxidant	2
Proliferant	1
Preservative	1
Potassium-Sparing	1
Plasmodicide	1
Piscicide	2

Activity	Chemical Count
Phytoalexin	1
Phospholipase-Inhibitor	1
Phagocytotic	2
PGE2-Inhibitor	1
Pesticide	22
Perfumery	6
Percutaneostimulant	1
Parasiticide	2
PAF-Inhibitor	1
P450-Inhibitor	1
P450-Inducer	1
Ornithine-Decarboxylase-Inhibitor	4
NO-Synthase-Inhibitor	1
NO-Inhibitor	2
NF-kB-Inhibitor	3
Neurotropic	1
Neurotransmitter	1
Neurotoxic	1
Neuroprotective	2
Nephrotoxic	1
NEP-Inhibitor	1
Neoplastic	1
Nematicide	4
Natriuretic	1
Narcotic	1
NADH-Oxidase-Inhibitor	1
Myorelaxant	1

Activity	Chemical Count
Mutagenic	2
Mucogenic	1
Motor-Depressant	2
Mosquitocide	1
MMP-9-Inhibitor	2
Metastatic	1
Metalloproteinase-Inhibitor	1
Metal-Chelator (Copper)	1
Metal-Chelator	2
Memory-Enhancer	1
Mast-Cell-Stabilizer	1
MAO-Inhibitor	1
MAO-A-Inhibitor	1
Lyase-Inhibitor	1
Lubricant	2
Litholytic	1
Lipoxygenase-Inhibitor	5
Leukotriene-Inhibitor	1
Leucocytogenic	2
Leptingenic	1
Laxative	4
Larvostat	1
Larvicide	2
Juvabional	2
JNK-Inhibitor	1
Irritant	4
Iodothyronine-Deiodinase-Inhibitor	1

Activity	Chemical Count
Insulinogenic	3
Insectifuge	9
Insecticide	2
Inotropic	2
iNOS-Inhibitor	2
Immunosuppressant	1
Immunostimulant	5
Immunomodulator	7
ICAM-1-Inhibitor	1
Hypotensive	9
Hypolipidemic	1
Hypolipemic	1
Hypoglycemic	3
Hypocholesterolemic	6
Hypertensive	1
Hyperglycemic	1
Hypercholesterolemic	1
Hydrocholerectic	1
HIV-RT-Inhibitor	2
Histamine-Inhibitor	1
Herbicide	2
Hepatotropic	2
Hepatoprotective	10
Hepatomagenic	1
Hepatocarcinogenic	1
Hemostat	1
Hemolytic	3

Activity	Chemical Count
Glucosyl-Transferase-Inhibitor	1
Gastroprotective	2
Fungicide	9
Fumigant	1
FPTase-Inhibitor	1
FLavor	11
Flatugenic	1
Expectorant	2
Estrogenic	2
Ergogenic	1
Enterorelaxant	1
Emetic	3
Elastase-Inhibitor	2
DNA-Protective	1
DNA-Active	1
Diuretic	9
Differentiator	1
Diaphoretic?	3
Detoxicant (Alcohol)	1
Dermatitigenic	2
Dermal	1
Deodorant	1
Deiodinase-Inhibitor	1
Cytotoxic	8
Cytoprotective	1
Cytochrome-P450-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1

Activity	Chemical Count
Cyclooxygenase-Inhibitor	4
COX-2-Inhibitor	6
COX-1-Inhibitor	1
Cosmetic	2
Coronary-Dilator	1
Copper-Chelator	2
Copper-Antagonist	1
Contraceptive	1
COMT-Inhibitor	1
Comedolytic	1
Collagenic	1
Collagen-Sparing	1
Co-carcinogenic	1
CNS-Depressant	4
CNS-Active	1
Clastogenic	1
Choleretic	8
Cholagogue	2
Chemopreventive	2
Catabolic	1
Carminative	1
Cardiotoxic	1
Cardiotonic	3
Cardioprotective	5
Cardiodepressant	1
Cardiac	1
Carcinogenic?	1

Activity	Chemical Count
Carcinogenic	5
Capillariprotective	1
Candidicide	5
Cancer-Preventive	13
cAMP-Phosphodiesterase-Inhibitor	2
Calmodulin-Antagonist	1
Calcium-Channel-Blocker	1
Calcium-Antagonist	3
Bradycardiac	1
Beta-Glucuronidase-Inhibitor	2
Beta-Blocker	3
Bacteristat	3
ATPase-Inhibitor	1
Astringent	1
Arteriodilator	1
Aromatase-Inhibitor	3
Apoptotic	2
Apifuge	1
Anxiolytic	4
Antiyeast	1
Antiwrinkle	1
Antiviral?	1
Antiviral	9
Antivaricose	1
Antivaccinia	1
Antiurethrotic	1
Antiulcerogenic	1



Activity	Chemical Count
Antiulcer	8
Antitumor-Promoter	5
Antitumor (Stomach)	1
Antitumor (Skin)	3
Antitumor (Pancreas)	1
Antitumor (Ovary)	2
Antitumor (Lung)	3
Antitumor (Liver)	1
Antitumor (Kidney)	1
Antitumor (Fore stomach)	1
Antitumor (Colon)	4
Antitumor (Cervix)	1
Antitumor (Breast)	3
Antitumor (brain)	1
Antitumor (Bladder)	1
Antitumor	11
Antitubercular	1
Antitrypanosomic	2
Antitriglyceride	1
AntiTNF	1
Antitinnitic	1
Antitic	1
Antithyroid	1
Antithromboxane	2
Antithrombic	2
Antithiamin	2
AntiTGF-beta	2

Activity	Chemical Count
Antisyndrome-X	3
Antisunburn	1
Antistroke	2
Antistress	3
Antistreptococcic	1
Antistomatitic	2
Antistaphylococcic	4
Antispastic	1
Antispasmophilic	1
Antispasmodic	11
Antispare-Tire	1
Antisinusitic	1
Antiserotonin	2
Antiseptic	15
Antisarcomic	1
Antisalmonella	2
Antirheumatic	3
AntiReye's	1
Antiretinopathic	1
AntiRaynaud's	1
Antiradicular	6
Antipyruvetic	1
Antipyretic	4
Antipsoriac	1
Antipruritic	1
Antiprostatic	4
Antiprostanoid	1

Activity	Chemical Count
Antiprostaglandin	3
Antiproliferative	1
Antiproliferant	2
Antiprolactin	1
Antipolio	1
Antipodriac	1
AntiPMS	4
Antiplasmodial	3
Antiplaque	5
Antipharyngitic	1
AntiPGE2	1
Antiperoxidant	6
Antipermeability	1
Antiperistaltic	1
Antiperiodontitic	2
Antiperiodontic	2
Antiperiodontal	1
Antipeptic	1
Antipancreatic	1
Antioxidant	15
Antioxalate	1
Antiototic	1
Antiotitic	2
Antiosteoporotic	5
Antiophidic	1
Antionychogryphotic	1
Antiodontalgic	1

Activity	Chemical Count
Antiobesity?	1
Antiobesity	2
Antinyctalopic	1
Antinociceptive	4
Antinitrosating	1
Antinitrosaminic	4
Antineurotic	1
Antineuropathic	1
Antinephrolytic	1
Antinephritic	3
Antineoplastic	1
Antinauseant	1
Antimyocarditic	1
Antimutagenic	11
AntiMS	3
Antimitral-valve-prolapse	1
Antimitotic	2
Antimigraine	1
Antimetastatic	3
Antimenorrhagic	2
Antimenopausal	2
Antimelanomic	1
Antimelanogenic	1
Antimastalgic	1
Antimalarial	4
Antimaculitic	1
Antilymphomic	2

Activity	Chemical Count
Antilymphocytic	1
AntiLyme	1
Antilithic	2
Antilipoperoxidant	1
Antileukotriene-D4	2
Antileukotriene	3
Antileukonychic	1
Antileukemic	7
Antileptic	1
Antileishmanic	2
AntiLegionella	1
Antiketotic	2
Antikeratotic	1
Antiischemic	1
Antiinsomniac	3
Antiinflammatory	16
Antiinfertility	1
Antiinfective	1
Antiincontinence	1
Antiimpotence	1
Antiimplantation	1
Antihypoglycemic	1
Antihyperthyroid	1
Antihypertensive	5
Antihyperlipidemic	2
Antihyperkinetic	2
Antihyperglycemic	1

Activity	Chemical Count
Antihypercholesterolemic	1
Antihydrophobic	1
Antihydrocoele	1
AntiHIV	5
Antihistaminic	5
Antiherpetic?	1
Antiherpetic	5
Antihepatotoxic	7
Antihepatoadenomic	1
Antihemorrhoidal	1
Antihemolytic	1
Antihangover	2
AntiGTF	1
Antigranular	1
Antigonadotropic	2
Antiglaucomic	2
Antigingivitic	2
Antigenotoxic	1
Antigastroic	1
Antigastric	1
Antifuruncular	1
Antiflu	3
Antifibrotic	1
Antifibrosarcomic	2
Antifibromyalgic	1
Antifibrinolytic	2
Antifertility	3

Activity	Chemical Count
Antifeedant	2
Antifatigue	3
Antiestrogenic	3
Antiesophagitic	1
Antiescherichic	3
Antiepileptic	3
Antienterotic	1
Antiendometriotic	1
Antiencephalopathic	1
Antiencephalitic	1
Antielastase	2
Antiedemic	8
Antieczemic	3
AntiEBV	2
Antidysmenorrhic	2
Antidyskinetic	1
Antidysgeuzic	1
Antidote (Lead)	1
Antidote (Cadmium)	1
Antidote (Aluminum)	1
Antidiscotic	1
Antidiabetic	7
Antidermatitic	2
Antidepressant	5
Antidementia	1
Antidandruff	1
Anticystitic	1

Activity	Chemical Count
AntiCrohn's	2
Anticoronary	3
Anticonvulsant	2
Anticomplementary	2
Anticomplement	2
Anticolitic	2
Anticold	1
Anticoeliac	1
Anticlimacteric	2
Anticlastogen	1
Anticholestatic	1
Anticheilitic	1
AntiCFS	1
Anticephalagic	1
Anticataract	2
Anticariogenic	3
Anticarcinomic (Breast)	1
Anticarcinomic	2
Anticarcinogenic	2
Anticanker	2
Anticancer (Skin)	1
Anticancer (Liver)	1
Anticancer (Foreestomach)	1
Anticancer (Colon)	2
Anticancer	4
AntiBPH	1
Antibacterial	13



Activity	Chemical Count
Antiatherosclerotic	4
Antiatherogenic	1
Antiasthmatic	2
Antiarthritic	8
Antiarteriosclerotic	1
Antiarrhythmic	7
Antiarachidonate	1
Antianxiety	2
Antianorexic	1
Antianorectic	1
Antiangiogenic	3
Antianginal	1
Antianemic	3
Antiandrogenic	3
Antianaphylactic	2
Antialzheimeran	3
Antialopepic	4
Antiallergic	5
Antialcoholic	4
Antiakathisic	1
Antiaging	2
Antiaggregant	6
Antiaflatoxin	2
Antiadenoviral	1
Antiacrodermatitic	1
Antiacne	2
Anthelmintic	1

Activity	Chemical Count
Anorexic	1
Angiotensin-Receptor-Blocker	1
Anesthetic	6
Anemiagenic	1
Analgesic	10
Alpha-Reductase-Inhibitor	1
Allergenic	8
Allelopathic	2
Allelochemic	3
Aldose-Reductase-Inhibitor	4
Aldehyde-Oxidase-Inhibitor	1
Adaptogenic	1
Acetylcholinergic	1
ACE-Inhibitor	3
Acaricide	1
Abortifacient	1
5-Lipoxygenase-Inhibitor	2
5-Alpha-Reductase-Inhibitor	4
11B-HSD-Inhibitor	2