

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in *Citrus reticulata***

<b>Activity</b>	<b>Chemical Count</b>
(-)-Chronotropic	2
(-)-Inotropic	2
5-Alpha-Reductase-Inhibitor	6
5-Lipoxygenase-Inhibitor	1
Acaricide	10
Acarifuge	1
ACE-Inhibitor	5
AChE-Inhibitor	1
Acidulant	1
Addictive	1
Adjuvant	1
Adrenergic	1
Aldose-Reductase-Inhibitor	16
Allelochemic	3
Allelopathic	6
Allergenic	20
Allergenic?	1
Alpha-Amylase-Inhibitor	1

<b>Activity</b>	<b>Chemical Count</b>
Alpha-Reductase-Inhibitor	1
Amphiglycemic?	1
Analeptic	1
Analgesic	14
Ancylostomicide	1
Androgenic	2
Androgenic?	1
Anemiagenic	1
Anesthetic	6
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anhydrotic	1
Ankylostomacide	1
Anorexic	3
Anthelmintic	4
Anti-LDL	1
Antiacetylcholinesterase	10
Antiacid	1
Antiacne	12
Antiacrodermatitic	1

Activity	Chemical Count
Antiacrodynamic	1
AntiADD	1
Antiadenomic	2
Antiadrenalinic	1
Antiaflatoxin	1
AntiAGE	2
Antiaggregant	8
Antiaging	3
Antiakathisic	1
Antialcoholic	4
Antialdosteronic	1
Antialkali?	1
Antialkalotic	1
Antiallergenic	1
Antiallergic	12
Antialopepic	4
Antialzheimeran	5
Antialzheimeran?	2
Antiamblyopic	1
Antianaphylactic	2

<b>Activity</b>	<b>Chemical Count</b>
Antiandrogenic	4
Antianemic	4
Antianginal	3
Antiangiogenic	2
Antianorectic	2
Antianorexic	1
Antianxiety	3
Antiaphthic	1
Antiarabiflavinotic	1
Antiarrhythmic	4
Antiarteriosclerotic	3
Antiarthritic	13
Antiasthmatic	9
Antiatherogenic	1
Antiatherosclerotic	11
Antibacillary	1
Antibackache	1
Antibacterial	32
Antiberiberi	1
AntiBPH	1

<b>Activity</b>	<b>Chemical Count</b>
Antibradykinic	1
Antibronchitic	3
Anticalculic	1
Anticancer	7
Anticancer (Breast)	3
Anticancer (Cervix)	2
Anticancer (Colon)	1
Anticancer (Esophagus)?	1
Anticancer (Forestomach)	1
Anticancer (Liver)	2
Anticancer (Lung)	2
Anticancer (Pancreas)	1
Anticancer (Skin)	2
Anticanker	3
Anticapillary-Fragility	2
Anticarcinogenic	2
Anticarcinomic	2
Anticardiospasmic	1
Anticariogenic	8
Anticarpal-Tunnel	1

<b>Activity</b>	<b>Chemical Count</b>
Anticataleptic	2
Anticataract	8
Anticatarrh	2
Anticephalagic	4
Anticerebrotic	1
Anticervicaldysplasic	4
AntiCFS	3
Anticheilitic	3
Antichilblain	1
Anticholinesterase	3
Antichoreic	1
Anticirrhotic	1
Anticirrhotic?	1
Anticlastogen	1
Anticlaudificant?	1
Anticlimacteric	4
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolic	1

<b>Activity</b>	<b>Chemical Count</b>
Anticolitic	2
Anticonvulsant	7
Anticorneotic	1
Anticoronary	5
AntiCrohn's	2
AntiCTS	1
AntiCVI	1
Anticytotoxic	1
Antidandruff	3
Antidecubitic	3
Antideliriant	1
Antidementia	6
Antidepressant	8
Antidepressant?	1
Antidermatitic	4
Antidiabetic	9
Antidiabetic?	1
Antidiscotic	1
AntiDNA	1
Antidote (Acetaminophen)	1

Activity	Chemical Count
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Hypoglycin-A)	1
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paracetamol)	1
Antidote (Paraquat)	1
Antidysgeuzic	1
Antidyskinetic	2
Antidysmenorrheic	2
Antidyspeptic	1
Antidysphagic	1
AntiEBV	1
Antieczemic	4
Antiedemic	5
Antiencephalitic	1
Antiencephalopathic	7
Antiencephalopathic?	1
Antiendometriotic	2
Antienterotic	1



<b>Activity</b>	<b>Chemical Count</b>
Antiepileptic	5
Antiesophagitic	1
Antiestrogenic	2
Antifatigue	9
Antifeedant	9
Antifertility	1
Antifibrinolytic	2
Antifibromyalgic	2
Antifibrotic	3
Antiflu	5
Antifuruncular	1
Antigallstone	1
Antigastritic	3
Antigastrotic	1
Antigingivitic	2
Antiglaucomic	2
Antigliomic	1
Antiglossitic	2
Antiglutamaergic	1
Antiglycosuric	1

<b>Activity</b>	<b>Chemical Count</b>
Antigonadotrophic	1
Antigout	1
Antigranular	1
Antigrey	1
Antihalitotic	3
Antihangover	4
Antiheartburn	1
Antihelicobacter	2
Antihemorrhagic	1
Antihemorrhoidal	1
Antihepatitic	2
Antihepatotic	1
Antihepatotoxic	4
Antiherpetic	6
Antiherpetic?	1
Antihistaminic	8
AntiHIV	2
Antihomocystinuric	1
Antihyperactivity	1
Antihyperammonemic	1

<b>Activity</b>	<b>Chemical Count</b>
Antihypercholesterolemic	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipoproteinaemic	1
Antihypertensive	9
Antihypoglycemic	1
Antiichthyotic	1
Antiilus?	1
Antiimplantation	1
Antiimpotence	2
Antiinfarctal	1
Antiinfective	1
Antiinfertility	4
Antiinflammatory	26
Antiinsomniac	4
Antiinsomniac?	1
Antiinsomnic	2
Antiischemic	2
Antikeratitic	1
Antikeshan	1

<b>Activity</b>	<b>Chemical Count</b>
Antilaryngitic	2
Antileishmanic	2
Antileptic	3
Antilethargic	1
Antileukemic	6
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	3
Antileukotriene-D4	3
Antilipoperoxidant	1
Antilithic	4
Antilithic?	1
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	4
Antimaculitic	6
Antimalarial	5
Antimange	1
Antimanic	1

<b>Activity</b>	<b>Chemical Count</b>
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanomic	5
AntiMeniere's	1
Antimenopausal	5
Antimenorrhagic	3
Antimetastatic	5
Antimetastatic (Stomach)	1
Antimetrorrhagic	1
Antimigraine	5
Antimite	1
Antimitotic	2
Antimitral-valve-prolapse	1
Antimorphinic	1
AntiMS	2
Antimutagenic	13
Antimyalgic	1
Antimyelotoxic	1
Antimyocarditic	1

<b>Activity</b>	<b>Chemical Count</b>
Antineoplastic	1
Antinephritic	1
Antinephrolytic	1
Antineuralgic	2
Antineuramidase	1
Antineurasthenic	1
Antineuritic	2
Antineuropathic	5
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	4
Antinitrosic	1
Antinociceptive	5
Antinyctalopic	2
Antiobesity	6
Antiodontalgic	1
Antionychyotic	2
Antiophidic	2
Antiorchitic	1
Antiosteoarthritic	4

<b>Activity</b>	<b>Chemical Count</b>
Antiosteoporotic	9
Antiototic	1
Antioxidant	30
Antioxidant (LDL)	1
Antioxidant Synergist	2
Antioxidant?	2
Antiozenic	1
Antipapillomic	1
Antiparkinsonian	8
Antiparotitic	1
Antipellagic	3
Antiperiodontic	1
Antiperiodontitic	4
Antiperoxidant	1
Antipharyngitic	2
Antiphenylketonuric	2
Antiphotophobic	2
Antipityriasic	1
Antiplateau	6
Antiplasmodial	2

<b>Activity</b>	<b>Chemical Count</b>
AntiPMS	4
Antipneumonic	2
Antipodriac	1
Antipoliomyelitic	2
Antiporphyric	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	10
Antiproliferative	3
Antiprostaglandin	4
Antiprostataadenomic	1
Antiprostatitic	6
Antipruritic	3
Antipsoriac	1
Antipsychotic	2
Antipyretic	3
Antiradicular	10
AntiRaynaud's	3
Antiretardation	1
Antiretinitic Optometry	1



<b>Activity</b>	<b>Chemical Count</b>
Antiretinopathic	2
Antiretinotic	2
Antirheumatalgic	1
Antirheumatic	10
Antirheumatitic?	1
Antirhinitic	3
Antirhinoviral	1
AntiRNA	1
Antisalmonella	2
Antiscoliotic	1
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	3
Antiseptic	25
Antiserotonin	1
Antishingles	1
Antishock	1
Antisickling	3
Antisilicotic	1
Antisinusitic	2

<b>Activity</b>	<b>Chemical Count</b>
Antispasmodic-Tire	1
Antispasmodic	20
Antispasmophilic	1
AntiSpina-Bifida	1
Antistaphylococcic	8
Antistomatitic	2
Antistreptococcic	5
Antistress	5
Antistroke	3
Antisyndrome-X	6
Antithrombic	1
Antithromboxane	1
Antitic	1
Antitinnitic	2
Antitrichinosic	1
Antitriglyceride	3
Antitubercular	3
Antitumor	12
Antitumor (Bladder)	1
Antitumor (brain)	1

<b>Activity</b>	<b>Chemical Count</b>
Antitumor (Breast)	6
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	5
Antitumor (Esophagus)?	1
Antitumor (Forestomach)	1
Antitumor (Gastric)	1
Antitumor (Liver)	1
Antitumor (Lung)	4
Antitumor (Pancreas)	2
Antitumor (Prostate)	4
Antitumor (Skin)	2
Antitumor (Stomach)	3
Antitumor-Promoter	3
Antitussive	4
Antiulcer	18
Antiulcerogenic	1
Antiuremic	1
Antiuricosuric	1
Antivaccinia	1

<b>Activity</b>	<b>Chemical Count</b>
Antivaginitic	1
Antivertigo	1
Antiviral	14
Antiviral?	1
Antivitaligic	1
Antixerophthalmic	1
Antiyeast	1
Anxiolytic	8
AP-1-Inhibitor	1
Aphrodisiac	1
Apoptotic	6
Artemicide	2
Arteriodilator	1
Ascaricide	1
Asthma-preventive	1
Astringent	1
Ataxigenic	1
Bacteriostatic	1
Bacteristat	1
Barbituate-Synergist	1

<b>Activity</b>	<b>Chemical Count</b>
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bronchoprotectant	1
Bronchorelaxant	1
Bruchiphobe	1
Calcium-Antagonist	4
Calcium-Channel-Blocker	1
Cancer-Preventive	33
Candidicide	15
Candidostat	3
Capillariprotective	1
Carcinogenic	4
Cardiac	2
Cardiomyopathogenic	1
Cardioprotective	10
Cardiotoxic	1
Cardiovascular	3
Carminative	3
Caspase-8-Inducer	1

<b>Activity</b>	<b>Chemical Count</b>
Catabolic	1
Chemopreventive	5
Cholagogue	2
Choleretic	7
Cholesterolytic	1
Cholinergic	1
Cicatrizant	1
Circulotonic	2
CNS-Depressant	5
CNS-Inhibitor	1
CNS-Paralytic	1
CNS-Stimulant	4
Cold-preventive	1
Coleoptophile	1
Collagenic	2
Colorant	5
Comedogenic	1
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1

<b>Activity</b>	<b>Chemical Count</b>
Convulsant	2
Copper-Antagonist	1
Cosmetic	3
Counterirritant	3
COX-1-Inhibitor	3
COX-2-Inhibitor	3
Culicide	2
Cyclooxygenase-Inhibitor	3
Cytochrome-P450-Inducer	3
Cytoprotective	1
Cytotoxic	3
Decongestant	2
Degranulant	2
Dentifrice	3
Deodorant	3
Depressant	1
Dermal	1
Dermatitigenic	3
Detoxicant	2
Detoxicant (Alcohol)	1

<b>Activity</b>	<b>Chemical Count</b>
Disinfectant	1
Diuretic	10
DME-Inhibitor	1
Edemagenic	2
Embryotoxic	2
Emetic	4
Encephalopathic	1
Energizer	1
Enterocontractant	1
Enterorelaxant	1
Enterotoxic	1
Ergogenic	1
ERK-1-Inhibitor	1
ERK-2-Inhibitor	1
Erythrocytogenic	1
Essential	8
Estrogenic	5
Expectorant	10
Fatal	1
Febrifuge	1



<b>Activity</b>	<b>Chemical Count</b>
Fibrinolytic	1
Fistula-Preventive	1
FLavor	44
Fungicide	25
Fungiphilic	1
Fungistat	3
GABA-nergic	1
Gastroirritant	1
Gastroprotective	4
Glutathionigenic	2
Gonadotrophic	1
Gram(+)icide	3
Gram(-)icide	3
GST-Inducer	1
Hematopoietic	1
Hemolytic	1
Hemopoietic	1
Hemostat	1
Hemostatic	1
Hepatoprotective	7

<b>Activity</b>	<b>Chemical Count</b>
Hepatotonic	2
Hepatotoxic	2
Hepatotropic	1
Herbicide	10
Histaminic	1
Hydrocholerectic	1
Hypercholesterolemic	3
Hyperglycemic	1
Hypertensive	5
Hypnotic	3
Hypoammonemic	1
Hypoarginanemic	1
Hypocalcemic	1
Hypocholesterolemic	14
Hypocholesterolemic?	1
Hypoglycemic	8
Hypolipidemic	5
Hypotensive	14
Hypothermic	2
Hypouricemic	1

<b>Activity</b>	<b>Chemical Count</b>
Immunomodulator	9
Immunostimulant	8
Immunosuppressant	3
Inflammatory	2
Insecticide	8
Insectifuge	24
Insectiphile	4
Insulin-Sparing	1
Insulinase-Inhibitor	1
Insulinogenic	3
Insulinotonic	1
Interferon-Synergist	1
Interferonogenic	1
Interleukin-6-Inhibitor	2
Irritant	22
Juvabional	1
Keratolytic	1
Larvicide	3
Laxative	6
Laxative?	2

<b>Activity</b>	<b>Chemical Count</b>
Leptingenic	1
Lipolytic	1
Lipotropic	1
Lipoxygenase-Inhibitor	3
Lithogenic	2
Litholytic	2
Lubricant	3
Lymphocytogenic	1
MDR-Inhibitor	2
Memorigenic	1
Metal-Chelator	1
Metastatic	1
Molluscicide	1
Monoamine-Precursor	3
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	4
Mucogenic	2
Mucolytic	1
Mucotropic	1

<b>Activity</b>	<b>Chemical Count</b>
Mutagenic	1
Mutagenic?	1
Mycobactericide	3
Myorelaxant	8
Nematicide	17
Nephrotoxic	2
Neuroexcitant	1
Neuroinhibitor	2
Neurolytic	1
Neuroprotective	2
Neurotoxic	5
Neurotransmitter	2
NF-kB-Inhibitor	2
NO-Genic	2
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	3
Osteogenic	1
Oviposition-Stimulant	2
Ovulant	1
Oxidant	2

<b>Activity</b>	<b>Chemical Count</b>
Oxytotic	1
Ozone-Scavenger	1
P450-2B1-Inhibitor	4
P450-Inducer	4
P450-Inhibitor	1
Parasiticide	2
Pediculicide	2
Percutaneostimulant	1
Perfume	2
Perfumery	31
Peristaltic	1
Pesticide	60
Phagocytotic	2
Pheromone	1
Photosensitizer	1
Pituitary-Stimulant	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Preservative	1
Previtamin-A	1

<b>Activity</b>	<b>Chemical Count</b>
ProHDL	1
Prolactinogenic	1
Prooxidant	4
Propepic	5
Prostaglandigenic	1
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	2
Protein-Kinase-C-Inhibitor	1
Quinone-Reductase-Inducer	2
Radioprotective	1
Refrigerant	1
Renoirritant	1
Renotoxic	1
Respirapalytic	1
Retinoprotectant Optometry	1
Roborant	1
Rubefacient	3
Scabicide	1
Schizophrenigenic	1
Sclerosant	1

<b>Activity</b>	<b>Chemical Count</b>
Secretagogue	2
Sedative	21
Serotonergic	2
Sialogogue	1
Soap	2
Spasmogenic	6
Spasmolytic	1
Spermicide	2
Spermigenic	2
Sprout-Inhibitor	1
Stomachic	1
Sunscreen	1
Suppository	1
Surfactant	3
Sympathomimetic	1
Teratogenic	2
Termiticide	2
Termitifuge	2
Testosterone-Hydroxylase-Inducer	2
Testosterone-Inducer	1



<b>Activity</b>	<b>Chemical Count</b>
Testosteronigenic	1
Thymoprotective	1
Tracheorelaxant	1
Tranquilizer	5
Transdermal	6
Tremorigenic	1
Tremorilytic	1
Trichomonicide	10
Tumor-Promoter	2
Tyrosinase-Inhibitor	1
Ubiquiot	3
Ulcerogenic	2
Uricosuric	4
Urinary-Acidulant	1
Urinary-Antiseptic	1
Urine-Acidifier	1
Urine-Deodorant	1
Uterorelaxant	1
Uterosedative	1
Varroacide	2

<b>Activity</b>	<b>Chemical Count</b>
Vasoconstrictor	2
Vasodilator	9
Vasopressor	2
VEGF-Inhibitor	1
Venoprotective	1
Venotonic	1
Vermicide	2
Vibriocide	1
Vulnerary	4
Xanthine-Oxidase-Inhibitor	2