

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in *Nicotiana tabacum***

Activity	Chemical Count
(-)-Chronotropic	1
(-)-Inotropic	1
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	3
5-HETE-Inhibitor	1
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	4
Abortifacient	1
Absorbent	1
Acaricide	4
ACE-Inhibitor	4
Acidulant	3
Addictive	2
Additive	1
Aggregant	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	11
Allelochemic	6
Allelopathic	3
Allergenic	13
Alpha-Amylase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Analeptic	1
Analgesic	12
Androgenic	1
Androgenic?	1
Anemiagenic	1

Activity	Chemical Count
Anesthetic	7
Angiogenic	1
Anhydrotic	1
Anorectic	1
Anorexic	1
ANS-Paralytic	1
ANS-Stimulant	1
Anthelmintic	1
Antiacetylcholinesterase	1
Antiacne	2
Antiadenomic	1
Antiadenoviral	1
Antiadhesive	1
Antiadrenergic	1
Antiaflatoxin	3
Antiaggregant	9
Antiaging	4
Antialcoholic	1
Antiallergic	5
Antialopepic	4
Antialzheimeran	2
Antiamebic	1
Antianaphylactic	2
Antiandrogenic	4
Antianginal	1
Antiangiogenic	2
Antiaphthic	1

Activity	Chemical Count
Antiapoplectic	1
Antiarachidonate	1
Antiarrhythmic	5
Antiartherosclerotic	2
Antiartritic	4
Antiasthmatic	3
Antiasthmatic?	2
Antiatherogenic	2
Antiatheromic	1
Antiatherosclerotic	8
Antibacterial	27
Antibronchitic	2
Antibronchoconstrictor	1
Anticalculic	1
Anticancer	8
Anticancer (Breast)	4
Anticancer (Cervix)	2
Anticancer (Colon)	2
Anticancer (Forestomach)	2
Anticancer (Liver)	3
Anticancer (Lung)	1
Anticancer (Skin)	2
Anticapillary-Fragility	3
Anticarcinogenic	3
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticariogenic	3

Activity	Chemical Count
Anticataract	4
Anticatararrh	1
Anticephalagic	1
Anticerebrotic	1
Anticervicaldysplasic	1
Antichilblain	1
Anticholesteremic	1
Anticholinergic	2
Anticholinesterase	1
Antichorea	1
Antichoreic	2
Anticirrhotic	1
Anticlastogen	2
Anticoagulant	1
Anticolitic	1
Anticomplementary	1
Anticonvulsant	5
Anticoronary	4
AntiCrohn's	2
AntiCVI	1
Anticystitic	2
Antidecubitic	1
Antidementia	2
Antidepressant	2
Antidermatitic	5
Antidiabetic	9
Antidiabetic?	1

Activity	Chemical Count
Antidiarrheic	2
Antidote (Ammonia)	1
Antidote (Iodine)	1
Antidote (pesticides)	1
Antidysenteric	2
Antidysmenorrhic	2
AntiEBV	1
Antieczemic	2
Antiedemic	7
Antielastase	3
Antiencephalitic	1
Antiencephalopathic	1
Antienteritic	1
Antienzymatic	1
Antiepileptic	1
Antierhythmic	1
Antiescherichic	4
Antiesophagitic	1
Antiestrogenic	5
Antifatigue	1
Antifeedant	11
Antifertility	3
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrositic	1
Antiflu	4

Activity	Chemical Count
Antifumitory	1
Antigallstone	1
Antigastric	1
Antigastritic	2
Antigenotoxic	2
Antigingivitic	1
Antiglaucomic	1
Antiglycosation	1
Antigonadotrophic	1
Antigonadotropic	4
Antigranular	1
AntiGTF	1
Antihalitotic	1
Antihangover	1
Antihematuric	1
Antihemolytic	2
Antihemorrhagic	1
Antihemorrhoidal	2
Antihepatadenomic	1
Antihepatocarcinogenic	1
Antihepatotoxic	9
Antitherpetic	9
Antihiccup	1
Antihistaminic	7
AntiHIV	4
Antihomocystinuric	1
Antihydrocoele	1

Activity	Chemical Count
Antihydrophobic	1
Antihypercholesterolemic	2
Antihyperglycemic	1
Antihyperkeratotic	1
Antihyperlipoproteinaemic	1
Antihypertensive	3
Antihyperthyroid	2
Antiichthyotic	1
Antiimplantation	1
Antiincontinence	1
Antiinfertility	1
Antiinflammatory	21
Antiinsomniac	1
Antiischemic	1
Antikeratotic	1
Antiketotic	2
Antilaryngitic	1
AntiLegionella	2
Antileishmanic	2
Antilethargic	1
Antileukemic	8
Antileukoplakic	1
Antileukorrhoeic	1
Antileukotriene	4
Antileukotriene-D4	2
Antileukotrienogenic	1
Antilipoperoxidant	2

Activity	Chemical Count
Antilithic	2
Antilupus	2
Antilymphocytic	1
Antilymphomic	1
Antimaculitic	3
Antimalarial	2
Antimastalgic	1
Antimastitic	1
AntiMD	1
Antimelanogenic	2
Antimelanomic	3
Antimenorrhagic	1
Antimetastatic	3
Antimigraine	1
Antimitotic	2
AntiMS	3
Antimutagenic	16
Antimyotrophic	1
Antimyocarditic	1
Antimyoclonic	1
Antinauseant	1
Antineoplastic	1
Antinephritic	1
Antinesidioblastosic	1
Antineuritic	1
Antineuropathic	1
Antineuropathic?	1



Activity	Chemical Count
Antinitrosaminic	7
Antinitrosating	1
Antinociceptive	5
Antinyctalopic	1
Antiobesity	1
Antionychogryphotic	1
Antiophidic	3
Antiophthalmic	2
Antiosteoarthritic	1
Antiotitic	3
Antioxidant	27
Antioxidant Synergist	3
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	1
Antiperiodontal	1
Antiperiodontic	1
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	5
Antipharyngitic	2
Antiphotophobic	1
Antipityriasic	1
Antiplaque	3
Antiplasmodial	1
Antiplaquet	1

Activity	Chemical Count
AntiPMS	3
Antipodriac	1
Antipolio	2
Antiporphyrin	1
Antiprogestational	1
Antiproliferant	7
Antiprostaglandin	5
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	4
Antiprostatotic	1
Antiprotozoal	1
Antipruritic	1
Antipsoriac	3
Antipurpuric	2
Antipyretic	5
Antipyruvetic	1
Antiradicular	12
Antiretinitic Optometry	1
Antiretinopathic?	1
Antirheumatic	4
Antirhinitic	1
Antisalmonella	3
Antischizophrenic	1
Antiseborrheic	2
Antisenility	1
Antiseptic	22

Activity	Chemical Count
Antiserotonin	2
Antisickling	2
Antisinusitic	2
Antismoking	2
Antispasmodic	12
Antispastic	1
Antistaphylococcic	8
Antisterility	1
Antistomatitic	2
Antistreptococcic	1
Antistress	2
Antistroke	1
Antisunburn	4
Antisyncopic	1
Antisyndrome-X	1
Antithalassemic	1
Antithiamin	3
Antithrombic	2
Antithrombogenic	2
Antithrombotic	1
Antithromboxane	1
Antithromboxane-B2	1
Antithyreotropic	1
Antithyroid	3
Antithyrototoxic	1
Antitinnitic	1
AntiTNF	2

Activity	Chemical Count
Antitoxemic	1
Antitrypanosomic	2
Antitubercular	2
Antitubercular	1
Antitumor	22
Antitumor (Bladder)	1
Antitumor (Breast)	6
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	6
Antitumor (Colorectal)	1
Antitumor (Fore stomach)	2
Antitumor (Liver)	3
Antitumor (Lung)	3
Antitumor (Ovary)	1
Antitumor (Prostate)	3
Antitumor (Skin)	4
Antitumor (Stomach)	2
Antitumor-Promoter	8
Antitussive	2
Antiulcer	9
Antiulcerogenic	3
AntiUTI	1
Antivaccinia	1
Antivaginitic	2
Antivaricose	1
Antiviral	16

Activity	Chemical Count
Antiwrinkle	1
Antixerophthalmic	1
Antixerotic	1
Antiyeast	1
Anxiolytic	2
Apifuge	1
Apoptotic	7
Aromatase-Inhibitor	1
Artemicide	2
Arteriodilator	1
Astringent	1
Atherogenic	1
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	3
Bradycardiac	1
Bronchorelaxant	2
Bruchifuge	2
Bruchiphobe	3
Calcium-Antagonist	3
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	26
Candidicide	6
Candidistat	1
Capillarigenic	1
Capillariprotective	2

Activity	Chemical Count
Carcinogenic	9
Carcinogenic?	1
Cardiac	1
Cardiodepressant	3
Cardioprotective	3
Cardiotonic	2
Cardiovascular	2
Carminative	1
Caspase-8-Inducer	1
Catabolic	2
Cataractagenic	1
Cathartic	1
Cerebroprotective	1
Chelator	1
Chemopreventive	6
Cholagogue	4
Choleretic	15
Cholesterolytic	1
Cholinergic	1
Circulatory-Stimulant	1
Circulotonic	1
Clastogenic	2
CNS-Active	2
CNS-Depressant	8
CNS-Inhibitor	1
CNS-Paralytic	1
CNS-Stimulant	3

Activity	Chemical Count
Co-carcinogenic	2
Coleoptophile	1
Collagen-Sparing	2
Collyrium	1
Colorant	4
Comedolytic	1
COMT-Inhibitor	1
Convulsant	2
Copper-Chelator	2
Corrosive	1
Cosmetic	2
Counterirritant	2
COX-1-Inhibitor	2
COX-2-Inhibitor	5
Cyclooxygenase-Activator	1
Cyclooxygenase-Inhibitor	2
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inducer	1
Cytochrome-P450-Inhibitor	1
Cytoprotective	2
Cytotoxic	9
Decongestant	1
Degranulant	1
Deiodinase-Inhibitor	1
Demulcent	2
Dentifrice	1
Dermal	1

Activity	Chemical Count
Dermatitigenic	5
Detoxicant	1
Diagnostic	1
Diaphoretic	2
Diaphoretic?	3
Differentiator	1
Disinfectant	1
Diuretic	9
DNA-Active	1
DNA-Protective	1
Dopaminigenic	1
Dye	3
Ectoparasiticide	1
Edemagenic	1
Emetic	2
Emmenagogue	1
Emollient	1
Enterorelaxant	1
Epidermal-Stimulant	1
Epinephrinergic	1
Estrogenic	4
Estrogenic?	1
Ethanolytic	1
Expectorant	7
Fatal	1
Febrifuge	1
Flatugenic	3



Activity	Chemical Count
FLavor	18
Fumigant	1
Fungicide	23
Fungistat	3
Fungitoxic	1
Gastroprotective	2
Glucosyl-Transferase-Inhibitor	1
Gonadotrophic	1
Gram(+)icide	1
Gram(-)icide	1
Hemolytic	3
Hemopoietic	1
Hemostat	6
Hemostatic	1
Hepatocarcinogenic	1
Hepatomagenic	2
Hepatoprotective	14
Hepatotonic	2
Hepatotoxic	1
Hepatotropic	3
Herbicide	7
Histamine-Inhibitor	2
HIV-RT-Inhibitor	2
Humectant	1
Hydrocholerectic	1
Hypercholesterolemic	2
Hyperglycemic	1

Activity	Chemical Count
Hypertensive	4
Hypnotic	2
Hypoammonemic	1
Hypoarginanemic	1
Hypocalcemic	1
Hypocholesterolemic	12
Hypoglycemic	9
Hypolipidemic	2
Hypotensive	9
ICAM-1-Inhibitor	1
Ileorelaxant	1
Immunomodulator	3
Immunostimulant	6
Inflammatory	1
iNOS-Inhibitor	2
Inotropic	2
Insecticide	6
Insectifuge	11
Insectiphile	3
Insulin-Sparing	1
Insulinase-Inhibitor	1
Insulinogenic	1
Insulinotonic	1
Interferon-Synergist	1
Interferonogenic	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	15

Activity	Chemical Count
JNK-Inhibitor	1
Juvabional	5
Keratitigenic	1
Keratolytic	1
Larvicide	1
Larvostat	3
Laxative	3
Laxative?	2
Leukotriene-Inhibitor	2
Lipolytic	1
Lipotropic	2
Lipoxygenase-Inhibitor	9
Litholytic	1
Lubricant	1
Lyase-Inhibitor	1
MAO-A-Inhibitor	2
MAO-Inhibitor	3
Mast-Cell-Stabilizer	1
Metal-Chelator	3
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	1
Motor-Depressant	2
Motor-Stimulant	1
Mucogenic	2
Mucolytic	1

Activity	Chemical Count
Mucotropic	1
Musculotropic	3
Mutagenic	5
Mycobactericide	2
Myoprotective	1
Myorelaxant	7
NADH-Oxidase-Inhibitor	1
Natriuretic	1
Nematicide	4
Nematistat	3
Neoplastic	1
NEP-Inhibitor	1
Neuroinhibitor	1
Neurolytic	1
Neuroprotective	2
Neurotoxic	4
Neurotransmitter	1
NF-kB-Inhibitor	1
NO-Genic	1
NO-Inhibitor	3
NO-Synthase-Inhibitor	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	5
Osmoregulator	1
Osteolytic	1
Oviposition-Stimulant	2
Ovulant	1

Activity	Chemical Count
P21-Inducer	1
P450-Inducer	2
P450-Inhibitor	1
PAF-Inhibitor	2
Paralytic	1
Parasiticide	1
Pediculicide	1
Percutaneostimulant	1
Perfume	1
Perfumery	15
Peristaltic	1
Pesticide	54
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-A2-Inhibitor	1
Phospholipase-Inhibitor	1
Phytoalexin	6
Phytohormonal	1
Plasmodicide	1
Poultice	1
Preservative	3
Proliferant	1
Prooxidant	3
Propecic	4
Prostaglandigenic	3
Prostaglandin-Synthesis-Inhibitor	7
Protein-Kinase-C-Inhibitor	2

Activity	Chemical Count
Protisticide	3
PTK-Inhibitor	1
Purgative	1
Quinone-Reductase-Inducer	4
Radioprotective	1
Refrigerant	1
Renotoxic	1
Respiraparalytic	1
Respirastimulant	2
Retinoprotectant Optometry	1
Rodenticide	2
Rubefacient	3
Sclerosant	1
Secretagogue	1
Sedative	7
Serotoninerpic	1
Sialogogue	3
Soap	1
Soporific	1
Spasmogenic	1
Spermicide	2
Spinoconvulsant	1
Sprout-Inhibitor	1
Sunscreen	6
Surfactant	2
Sweetener	7
Teratogenic	2

Activity	Chemical Count
Teratologic	2
Termiticide	1
Testosterone-Hydroxylase-Inducer	1
Thymoprotective	1
TNF-alpha-Inhibitor	3
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	4
Toxic	1
Tranquilizer	2
Transdermal	3
Tremorolytic	1
Trichomonicide	2
Trichomonistat	2
Triglycerigenic	1
Trypsin-Enhancer	1
Tumor-Promoter	1
Tumorigenic	2
Tyrosinase-Inhibitor	5
Tyrosine-Kinase-Inhibitor	1
Ubiquiot	7
Ulcerogenic	4
Urate-Solvent	1
Uricogenic	1
Uricosuric	1
Uterosedative	2
Uterotrophic	1
UV-Screen	2

Activity	Chemical Count
Varroacide	2
Vasodilator	6
Vasopressor	3
VEGF-Inhibitor	1
Vermifuge	1
Verrucolytic	1
Vulnerary	4
Xanthine-Oxidase-Inhibitor	4