

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Hibiscus sabdariffa**

Activity	Chemical Count
(-)-Chronotropic	1
(-)-Inotropic	1
5-Alpha-Reductase-Inhibitor	5
5-HETE-Inhibitor	1
Absorbent	1
Acaricide	6
Acarifuge	1
ACE-Inhibitor	3
AChE-Inhibitor	1
Acidifier	1
Acidulant	2
Additive	1
Aggregant	1
Aldose-Reductase-Inhibitor	4
Allelochemic	3
Allelopathic	2
Allergenic	16
Alpha-Amylase-Inhibitor	2
Alpha-Glucosidase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Amphiglycemic?	1
Analgesic	10
Anaphrodisiac	1
Androgenic	1
Androgenic?	1
Anemiagenic	1
Anesthetic	7

Activity	Chemical Count
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anhydrotic	1
Anorexic	2
Anthelmintic	1
Antiacetylcholinesterase	3
Antiacne	9
Antiacrodermatitic	1
Antiacrodynic	1
Antiadenomic	2
Antiadhesive	1
Antiadrenergic	1
Antiaflatoxin	1
AntiAGE	2
Antiaggregant	5
Antiaging	4
Antiakathisic	1
Antialcoholic	4
Antiallergic	5
Antialopepic	5
Antialzheimeran	6
Antialzheimeran?	1
Antiamblyopic	1
Antianaphylactic	2
Antiandrogenic	4
Antianemic	3
Antianginal	4

Activity	Chemical Count
Antiangiogenic	3
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiaphthic	1
Antiapoptotic	1
Antiarabiflavivotic	1
Antiarachidonate	1
Antiarrhythmic	5
Antiarteriosclerotic	3
Antiartritic	13
Antiasthmatic	9
Antiatheromic	1
Antiatherosclerotic	12
Antibackache	1
Antibacterial	20
Antiberiberi	1
AntiBPH	1
Antibronchitic	2
Antibronchoconstrictor	1
Anticalculic	1
Anticancer	9
Anticancer (Breast)	2
Anticancer (Cervix)	1
Anticancer (Lung)	1
Anticanker	3
Anticarcinogenic	1

Activity	Chemical Count
Anticarcinomic	1
Anticardiospasmic	1
Anticariogenic	5
Anticarpal-Tunnel	1
Anticataract	8
Anticatarrh	1
Anticephalagic	2
Anticervicaldysplasic	3
AntiCFS	3
Anticheilitic	2
Antichilblain	1
Anticholinergic	1
Anticholinesterase	1
Antichorea	1
Antichoreic	1
Anticirrhotic	1
Anticlastogen	1
Anticlimacteric	4
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolic	1
Anticolitic	2
Anticollegenase	1
Anticonvulsant	6
Anticorneotic	1
Anticoronary	6

Activity	Chemical Count
AntiCrohn's	2
AntiCRP	1
AntiCTS	1
AntiCVI	1
Anticystitic	1
Antidandruff	3
Antidecubitic	4
Antideliriant	1
Antidementia	6
Antidepressant	5
Antidermatitic	3
Antidiabetic	14
Antidiarrheic	1
Antidiscotic	1
Antidote	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Iodine)	1
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paraquat)	1
Antidysgeuzic	1
Antidyskinetic	1
Antidysmenorrheic	2
Antidyspeptic	1
Antidysphagic	1
Antieczemic	3

Activity	Chemical Count
Antiedemic	7
Antielastase	1
Antiencephalitic	1
Antiencephalopathic	2
Antiendometriotic	2
Antienteritic	1
Antienterotic	1
Antiepileptic	4
Antiepitheleomic	1
Antiesophagitic	1
Antiestrogenic	2
Antifatigue	7
Antifeedant	5
Antifertility	1
Antifibrinolytic	2
Antifibromyalgic	2
Antifibrositic	1
Antifibrotic	3
Antiflu	2
Antifuruncular	1
Antigallstone	2
Antigastritic	3
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	1
Antiglaucomic	2
Antiglossitic	1

Activity	Chemical Count
Antiglutamaergic	1
Antiglycosation	1
Antiglycosuric	1
Antigonadotrophic	1
Antigout	1
Antigranular	1
Antigrey	1
Antihalitotic	1
Antihangover	4
Antiheartburn	1
Antihemorrhagic	1
Antihepatic	1
Antihepatotoxic	4
Antiherpetic	5
Antiherpetic?	1
Antihiccup	1
Antihistaminic	5
AntiHIV	3
Antihyperactivity	1
Antihyperglycemic	1
Antihyperinsulinemic	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperleptinemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	5
Antihypoglycemic	1

Activity	Chemical Count
Antiichthyotic	1
Antiimpotence	1
Antiinfarctal	1
Antiinfective	1
Antiinfertility	4
Antiinflammatory	18
Antiinsomniac	3
Antiinsomnic	1
Antiischemic	4
Antikeratitic	1
Antikeratotic	1
Antikeshan	1
Antilaryngitic	1
AntiLegionella	1
Antileishmanic	2
Antileptic	2
Antileukemic	6
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	2
Antileukotriene-D4	2
Antileukotrienogenic	1
Antilipoperoxidant	1
Antilithic	5
Antilupus	2
AntiLyme	5
Antilymphomic	4



Activity	Chemical Count
Antimaculitic	6
Antimange	1
Antimastalgic	2
Antimastitic	1
AntiMD	1
Antimeasles	1
Antimelanogenic	1
Antimelanomic	2
AntiMeniere's	1
Antimenopausal	4
Antimenorrhagic	2
Antimetastatic	3
Antimetastatic (Stomach)	1
Antimigraine	4
Antimite	1
Antimitotic	1
Antimitral-valve-prolapse	1
Antimorphinic	1
AntiMS	3
Antimutagenic	15
Antimyalgic	1
Antimyocarditic	1
Antimyoclonic	1
Antimyopic	1
Antinephrolytic	1
Antinesidioblastotic	1
Antineuralgic	2

Activity	Chemical Count
Antineuramidase	1
Antineurasthenic	1
Antineuritic	2
Antineuropathic	4
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	1
Antinitrosating	1
Antinitrosic	1
Antinociceptive	2
Antinyctalopic	2
Antiobesity	8
Antiodontalgic	1
Antionychyotic	2
Antiophidic	2
Antiophthalmic	2
Antiorchitic	1
Antiosteoarthritic	4
Antiosteoporotic	8
Antiotitic	1
Antiototic	1
Antioxidant	26
Antioxidant Synergist	3
Antiozenic	1
Antipapillomic	1
Antiparkinsonian	5
Antiparotitic	1

Activity	Chemical Count
Antipellagic	2
Antipeptic	1
Antiperiodontal	1
Antiperiodontitic	3
Antiperoxidant	1
Antipharyngitic	1
Antiphotophobic	2
Antipityriasic	1
Antiplateque	4
AntiPMS	5
Antipneumonic	1
Antipodriac	1
Antipoliomyelitic	2
Antiporphyric	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	8
Antiprostaglandin	4
Antiprostataadenomic	1
Antiprostatitic	3
Antiprostatotic	1
Antipruritic	2
Antipsoriac	1
Antipyretic	4
Antiradicular	8
AntiRaynaud's	3
Antiretinopathic	2

Activity	Chemical Count
Antiretinopathic?	1
Antiretinotic	2
Antirheumatalgic	1
Antirheumatic	8
Antirhinitic	2
Antisalmonella	3
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	3
Antisenility	1
Antiseptic	24
Antishingles	1
Antishock	1
Antisickling	1
Antisilicotic	1
Antisinusitic	1
Antispare-Tire	1
Antispasmodic	13
Antispasmophilic	1
Antistaphylococcic	3
Antisterility	1
Antistomatitic	1
Antistreptococcic	1
Antistress	4
Antistroke	5
Antisunburn	1
Antisyncopic	1

Activity	Chemical Count
Antisyndrome-X	7
Antitartar	1
Antithalasemic	1
Antithrombotic	1
Antithromboxane	1
Antithromboxane-B2	1
Antitic	1
Antitinnitic	1
AntiTNF	1
Antitoxemic	1
Antitriglyceride	2
Antitubercular	2
Antitumor	18
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	5
Antitumor (Cervix)	1
Antitumor (CNS)	1
Antitumor (Colon)	4
Antitumor (Colorectal)	1
Antitumor (Gastric)	1
Antitumor (Lung)	4
Antitumor (Mouth)	1
Antitumor (Pancreas)	1
Antitumor (Prostate)	6
Antitumor (Skin)	1
Antitumor (Stomach)	4

Activity	Chemical Count
Antitumor-Promoter	1
Antitussive	3
Antiulcer	8
Antiulcerogenic	2
AntiUTI	1
Antivaginitic	2
Antivaricose	1
Antivertigo	1
Antiviral	9
Antiviral?	1
Antixerophthalmic	1
Anxiolytic	5
AP-1-Inhibitor	1
Apifuge	1
Apoptotic	9
Artemicide	1
Asthma-preventive	1
Astringent	2
Atherogenic	1
Bacteristat	1
Barbituate-Synergist	1
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	2
Bronchoprotectant	1
Bronchorelaxant	2
Bruchifuge	1

Activity	Chemical Count
Bruchiphobe	1
Calcium-Antagonist	4
Calcium-Channel-Blocker	1
Cancer-Preventive	20
Candidicide	7
Candidistat	2
Capillariprotective	1
Carcinogenic	3
Carcinogenic?	1
Cardiomyopathogenic	1
Cardioprotective	14
Cardiotoxic	1
Carminative	3
Caspase-8-Inducer	1
Cerebroprotective	1
Chemopreventive	5
Cholagogue	1
Choleretic	4
Cholesterolytic	2
Cicatrizant	1
Circulatory-Stimulant	1
Circulotonic	3
CNS-Depressant	5
CNS-Paralytic	1
CNS-Stimulant	2
Cold-preventive	1
Collagenase-Inhibitor	1

Activity	Chemical Count
Collagenic	3
Collyrium	1
Colorant	1
Comedogenic	1
Comedolytic	1
Contraceptive	1
Convulsant	1
Copper-Antagonist	1
Corrosive	1
Cosmetic	2
Counterirritant	3
COX-1-Inhibitor	3
COX-2-Inhibitor	3
Culicide	1
Cyclooxygenase-Inhibitor	1
Cytochrome-P450-Inducer	1
Cytochrome-P450-Inhibitor	1
Cytotoxic	4
Decongestant	1
Degranulant	1
Delta-9-Desaturase-Inhibitor	1
Demulcent	3
Dentifrice	2
Deodorant	2
Depressant	1
Dermatitigenic	2
Detoxicant	2



Activity	Chemical Count
Detoxicant (Alcohol)	1
Diagnostic	1
Disinfectant	1
Diuretic	6
Dye	1
Edemagenic	1
Elastase-Inhibitor	1
Emetic	2
Emollient	1
Encephalopathic	1
Energizer	1
Enterocontractant	1
Enterorelaxant	1
Ergogenic	1
Erythrocytogenic	1
Estrogenic	1
Expectorant	5
Fatal	1
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
Flatugenic	1
FLavor	19
Fungicide	15
Fungiphilic	1
Fungistat	2
Fungitoxic	1

Activity	Chemical Count
GABA-nergic	1
Gastroprotective	3
Glutathione-Depleting	1
Goitrogenic	1
Gonadotrophic	1
Gram(+)-icide	2
Gram(-)-icide	2
GST-Inducer	1
Hemolytic	1
Hemopoietic	1
Hemostat	4
Hemostatic	1
Hepatoprotective	7
Hepatotonic	2
Hepatotoxic	3
Herbicide	4
Herpetifuge	1
Histaminic	1
Hyaluronidase-Inhibitor	1
Hypercholesterolemic	3
Hypertensive	2
Hypnotic	2
Hypocalcemic	1
Hypocholesterolemic	18
Hypoglycemic	9
Hypolipidemic	2
Hypotensive	10

Activity	Chemical Count
Hypothermic	1
Hypouricemic	1
Immunomodulator	10
Immunostimulant	8
Immunosuppressant	1
Inflammatory	2
Insecticide	8
Insectifuge	10
Insectiphile	1
Insulin-Sparing	1
Insulinogenic	3
Interferon-Synergist	1
Interferonogenic	1
Interleukin-6-Inhibitor	2
Irritant	15
Juvabional	2
Keratitigenic	1
Keratolytic	1
Larvicide	3
Laxative	5
Laxative?	2
Leptigenic	1
Lipolytic	1
Lipoxygenase-Inhibitor	2
Lithogenic	2
Litholytic	2
Lubricant	3

Activity	Chemical Count
MAO-Inhibitor	2
Memorigenic	1
Metal-Chelator (Copper)	1
Metastatic	1
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	4
Mucogenic	2
Mucolytic	2
Mucotropic	1
Musculotropic	1
Mycobactericide	2
Myorelaxant	4
Narcotic	1
Natriuretic	1
Nematicide	9
Nematistat	1
Nephrotoxic	1
Neuroexcitant	1
Neurolytic	1
Neuroprotective	1
Neurotoxic	2
Neurotransmitter	1
NF-kB-Inhibitor	2
NO-Genic	1
NO-Inhibitor	3
NO-Scavenger	1

Activity	Chemical Count
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	4
Osteogenic	1
Osteolytic	1
Ozone-Scavenger	1
P21-Inducer	1
P450-Inducer	2
Parasiticide	1
Pediculicide	1
Percutaneostimulant	1
Perfume	2
Perfumery	10
Peristaltic	2
Pesticide	39
Phagocytotic	2
Phospholipase-A2-Inhibitor	1
Photosensitizer	1
Phytoalexin	1
Phytohormonal	1
Pigment	2
PKC-Inhibitor	1
Polyamine-Synthesis-Inhibitor	1
Poultice	1
Preservative	2
Prooxidant	4
Propecic	5
Prostaglandigenic	1

Activity	Chemical Count
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	1
Protein-Kinase-C-Inhibitor	2
Protisticide	1
Refrigerant	1
Renotoxic	1
Roborant	1
Rubefacient	3
Scabicide	1
Schizophrenigenic	1
Sclerosant	1
Secretagogue	2
Sedative	9
Sequestrant	1
Serotoninerigic	1
Sialogogue	1
Soap	2
Spasmogenic	1
Spermicide	2
Spermigenic	1
Suppository	1
Surfactant	2
Sweetener	2
Taenicide	1
Teratogenic	1
Termiticide	3
Termitifuge	2

Activity	Chemical Count
Testosterone-Hydroxylase-Inducer	1
Testosteronigenic	1
Thymoprotective	1
Toxic	1
Tranquilizer	2
Transdermal	3
Tremorilytic	1
Trichomonicide	4
Trichomonistat	1
Triglycerigenic	1
Trypsin-Enhancer	1
Tumor-Promoter	1
Tyrosinase-Inhibitor	3
Ubiquiot	3
Ulcerogenic	4
Uricogenic	1
Uricosuric	1
Urinary-Acidulant	1
Uterorelaxant	1
Uterosedative	1
Varroacide	2
Vasoactive	1
Vasodilator	10
Vasoprotective	1
Vasorelaxant	1
VEGF-Inhibitor	1
Vermifuge	1

Activity	Chemical Count
Verrucolytic	1
Vulnerary	4