

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Crocus sativus**

Activity	Chemical Count
Juvabional	1
Detoxicant	1
Soap	1
Antipolio	1
Verrucolytic	1
Antiischemic	1
Catabolic	1
Percutaneostimulant	1
Antidote (Paracetamol)	1
Antithiamin	1
Interleukin-6-Inhibitor	1
Antialdosteronic	1
Deiodinase-Inhibitor	1
ATPase-Inhibitor	1
Neoplastic	1
Hemolytic	1
Uterotonic	1
Antiichthyotic	1
Capillariprotective	1
Antidiarrheic	1
Antiadenomic	1
Antimetastatic (Stomach)	1
Cytochrome-P450-1A2-Inhibitor	1
Antigonadotropic	1
Anxiolytic	1
Mycobactericide	1
Anticancer (Cervix)	1

Activity	Chemical Count
AntiPGE2	1
Glucosyl-Transferase-Inhibitor	1
Antihyperammonemic	1
Calmodulin-Antagonist	1
Occuloirritant	1
Antiacetylcholine	1
Antimange	1
Antivaricose	1
Tremorigenic	1
Beta-Glucuronidase-Inhibitor	1
Antiserotonin	1
Inflammatory	1
COMT-Inhibitor	1
Plasmodicide	1
Memory-Enhancer	1
Antiozenic	1
Epileptigenic	1
AntiCrohn's	1
Hypothermic	1
Androgenic?	1
Antiesophagitic	1
Antitumor (Ovary)	1
Elastase-Inhibitor	1
Sweetener	1
Hypoarginanemic	1
CNS-Toxic	1
Phospholipase-Inhibitor	1

Activity	Chemical Count
Antiemetic	1
Antitumor (Cervix)	1
Differentiator	1
Spermicide	1
Anticephalagic	1
Antiporphyrin	1
Vulnerary	1
Acetylcholinergic	1
Antidyskinetic	1
Antitrypanosomic	1
Antialkalotic	1
Antinauseant	1
Dentifrice	1
Secretagogue	1
Antihepatic	1
Bacteristat	1
Hepatomagenic	1
Antiimpotence	1
P450-Inhibitor	1
Antidote (Acetaminophen)	1
Antistress	1
Antimite	1
Respirainhibitor	1
AntiGTF	1
NADH-Oxidase-Inhibitor	1
Anticancer (Prostate)	1
Antiphenylketonuric	1

Activity	Chemical Count
Gram(+)-icide	1
Antihyperlipidemic	1
Antiacid	1
Protein-Kinase-C-Inhibitor	1
Antiglossitic	1
Antivitiliginic	1
Antiperistaltic	1
Fungistat	1
Tumor-Promoter	1
Bronchoprotectant	1
Antidermatitic	1
Previtamin-A	1
Antifibrositic	1
Metalloproteinase-Inhibitor	1
Antibacillary	1
Antipapillomic	1
Neuroexcitant	1
ICAM-1-Inhibitor	1
MAO-A-Inhibitor	1
Antiarrhythmic	1
Antiototic	1
Termitifuge	1
Anticomplementary	1
Leucocytogenic	1
Dye	1
Stimulant	1
Anticheilitic	1

Activity	Chemical Count
Antiprostanoid	1
Adjuvant	1
Antileishmanic	1
Cholesterolytic	1
JNK-Inhibitor	1
Antinesidioblastosic	1
Dermatitigenic	1
Anticarpal-Tunnel	1
Antipodriac	1
Hepatotonic	1
VEGF-Inhibitor	1
Absorbent	1
Pediculicide	1
Antidote (Iodine)	1
AntiTGF-beta	1
Interferon-Synergist	1
AntiMS	1
Degranulant	1
Roborant	1
Ascaricide	1
Anticanker	1
Antipityriasic	1
GST-Inducer	1
Urine-Deodorant	1
Antihypoxic	1
Ozone-Scavenger	1
Antidiabetic?	1

Activity	Chemical Count
AntiADD	1
Antimetastatic	1
PTK-Inhibitor	1
Antigonadotrophic	1
Antiyeast	1
Antihydrophobic	1
Bruchifuge	1
NO-Synthase-Inhibitor	1
Antiuricosuric	1
MMP-9-Inhibitor	1
Antipellagic	1
Antidementia	1
Pituitary-Stimulant	1
Mast-Cell-Stabilizer	1
Thymoprotective	1
Antirheumatalgic	1
Antilupus	1
COMP-Inhibitor	1
Lipotropic	1
Antiangiogenic	1
Edemagenic	1
Surfactant	1
Anticolic	1
Hypoammonemic	1
Antileukoplakic	1
Antielastase	1
Larvicide	1

Activity	Chemical Count
Anticatarrh	1
Histaminic	1
Vibriocide	1
Antikeratitic	1
Cataractagenic	1
Perfume	1
Antidysenteric	1
Antithrombic	1
Iodothyronine-Deiodinase-Inhibitor	1
Antialkali?	1
Deliriant	1
Schizophrenigenic	1
Antihelicobacter	1
Bacteriostatic	1
Anticarcinomic (Breast)	1
Hemostat	1
Uterotrophic	1
Antiimplantation	1
Antidiscotic	1
Antistreptococcic	1
Cytochrome-P450-Inducer	1
Renoirritant	1
Antigranular	1
Aphrodisiac	1
Anticancer (Pancreas)	1
Glutathionigenic	1
Ubiquiot	1

Activity	Chemical Count
Antihyperkeratotic	1
Antimastitic	1
Mosquitofuge	1
Fungiphilic	1
Bradycardiac	1
Antidepressant?	1
Antishock	1
Inhalant	1
Antilymphocytic	1
Contraceptive	1
Poultice	1
Antifibrosarcomic	1
Antipancreatic	1
NEP-Inhibitor	1
Anticystitic	1
Antirhinitic	1
Hypouricemic	1
Anemiagenic	1
Antiestrogenic	1
Antiarabiflavinotic	1
Antiotitic	1
Embryotoxic	1
Anticomplement	1
Coleoptophile	1
Photosensitizer	1
Antiencephalitic	1
Antitumor (CNS)	1



Activity	Chemical Count
Spermigenic	1
Antihomocystinuric	1
Xanthine-Oxidase-Inhibitor	1
AChE-Inhibitor	1
Antilaryngitic	1
Peristaltic	1
Antidyspeptic	1
Antitubercular	1
Irritant?	1
Antiallergenic	1
Deodorant	1
Secretolytic	1
Antihepatotic	1
Barbituate-Synergist	1
Antipneumonic	1
Vasopressor	1
Abortifacient	1
Antiinfertility	1
Cardiotonic	1
PAF-Inhibitor	1
Antidote (Hypoglycin-A)	1
Antisyndrome-X	1
Insulinogenic	1
Antimorphinic	1
Respirastimulant	1
Antihalitotic	1
Natriuretic	1

Activity	Chemical Count
Anticancer (Skin)	1
Gram(-)-icide	1
Urine-Acidifier	1
Oxidase-Inhibitor	1
Antisinusitic	1
Antimenorrhagic	1
Culicide	1
Protisticide	1
Antiglutamaergic	1
Antixerophthalmic	1
Mucogenic	1
Anticancer (Bladder)	1
Antipermeability	1
GABA-nergic	1
Tumorigenic	1
Bronchorelaxant	1
Angiotensin-Receptor-Blocker	1
Antimaculitic	1
Proliferant	1
Antiuremic	1
Metastatic	1
Neuroinhibitor	1
Antisarcomic	1
Antitumor (Skin)	1
MAO-Inhibitor	1
Emollient	1
Testosterone-Hydroxylase-Inducer	1

Activity	Chemical Count
Anticonvulsant	1
Antiretardation	1
Hypolipemic	1
Alpha-Reductase-Inhibitor	1
Comedolytic	1
Piscicide	1
Antitumor (Kidney)	1
Ecbolic	1
Suppository	1
Hypnotic	1
Aldehyde-Oxidase-Inhibitor	1
CNS-Depressant	1
PGE2-Inhibitor	1
Antitumor (Bladder)	2
Rubefacient	2
Antiheartburn	2
Anticarcinomic	2
11B-HSD-Inhibitor	2
Tyrosine-Kinase-Inhibitor	2
Monoamine-Precursor	2
Antiberiberi	2
Antiperiodontal	2
Neurotoxic	2
Antidepressant	2
AntiLyme	2
Antifibrinolytic	2
TNF-alpha-Inhibitor	2

Activity	Chemical Count
Antirheumatic	2
Antianorectic	2
Antiosteoporotic	2
Antipsoriac	2
Antileukotriene	2
Antialzheimeran?	2
Antineuritic	2
HIV-RT-Inhibitor	2
Antiketotic	2
Chemopreventive	2
Anticardiospasmic	2
5-Lipoxygenase-Inhibitor	2
Insectiphile	2
Uricosuric	2
Oxidant	2
Antisickling	2
iNOS-Inhibitor	2
Antimelanomic	2
Motor-Depressant	2
NO-Genic	2
Antilymphomic	2
Estrogenic	2
Antisalmonella	2
Antilipoperoxidant	2
Hyperglycemic	2
Antieczemic	2
Beta-Blocker	2

Activity	Chemical Count
Carminative	2
Antihangover	2
(-)-Inotropic	2
Candidostat	2
Insect-Repellent	2
Anticancer (Breast)	2
Antiperoxidant	2
Gastroprotective	2
Tyrosinase-Inhibitor	2
Anthelmintic	2
Antimalarial	2
Cosmetic	2
Antigastric	2
Immunostimulant	2
Antitumor (Stomach)	2
Antioxidant?	2
Enterocontractant	2
Anticoronary	2
Antiescherichic	2
Antiobesity	2
Antipruritic	2
Phagocytotic	2
Antineurasthenic	2
Diaphoretic?	2
Antipoliomyelitic	2
Antiplasmodial	2
Antiaflatoxin	2

Activity	Chemical Count
Antipharyngitic	2
cAMP-Phosphodiesterase-Inhibitor	2
Ornithine-Decarboxylase-Inhibitor	2
COX-1-Inhibitor	2
Prostaglandin-Synthesis-Inhibitor	2
Antibronchitic	2
NF-kB-Inhibitor	2
Antitussive	2
Antiatherosclerotic	2
Lubricant	2
Teratologic	2
Antipyretic	2
Antileukotriene-D4	2
Antineuropathic	2
Anticervicaldysplasic	2
Antiproliferant	2
Hypercholesterolemic	2
Antinephritic	2
Antiaging	2
Decongestant	2
Aromatase-Inhibitor	2
Antiphotophobic	2
(-)-Chronotropic	2
Inotropic	2
Copper-Chelator	2
Antibackache	2
Tranquilizer	2

Activity	Chemical Count
Antideliriant	2
Antiarteriosclerotic	2
Antilithic	2
Antiepileptic	2
Lipolytic	2
Antianemic	2
Anticholinesterase	2
Antiedemic	3
Antialopecic	3
Antineuralgic	3
P450-2B1-Inhibitor	3
Counterirritant	3
Antigastritic	3
Antitumor-Promoter	3
Lipoxygenase-Inhibitor	3
Anticolitic	3
Larvostat	3
AntiHIV	3
AntiPMS	3
Cardioprotective	3
Antiaggregant	3
Cytotoxic	3
Anticancer	3
Anesthetic	3
Convulsant	3
Topoisomerase-II-Inhibitor	3
Antidecubitic	3

Activity	Chemical Count
Antitumor (Prostate)	3
Emetic	3
Antiandrogenic	3
Antinitrosaminic	3
Antihepatotoxic	3
Cyclooxygenase-Inhibitor	3
Mutagenic	3
Antifertility	3
Antitumor (Lung)	3
Antialzheimeran	3
ACE-Inhibitor	3
Antimyocarditic	3
P450-Inducer	3
Antimigraine	3
Myorelaxant	3
Antigingivitic	3
Antiperiodontic	3
Metal-Chelator (Copper)	3
Topoisomerase-I-Inhibitor	3
Antitumor (Pancreas)	3
Allelopathic	3
Laxative	3
Antianaphylactic	3
Antihypertensive	3
NO-Inhibitor	3
Antiparkinsonian	3
Antinociceptive	3



Activity	Chemical Count
Anticataract	4
Antistaphylococcic	4
Insecticide	4
Quinone-Reductase-Inducer	4
Propepic	4
Antiasthmatic	4
Apoptotic	4
Antifatigue	4
Antiradicular	4
Hypoglycemic	4
Pigment	4
Antitumor (Colon)	4
Antialcoholic	4
CNS-Stimulant	4
5-Alpha-Reductase-Inhibitor	4
Carcinogenic	4
Trichomonicide	4
Antiflu	4
Immunomodulator	4
Antiherpetic	5
Acaricide	5
Vasodilator	5
COX-2-Inhibitor	5
Transdermal	5
Neuroprotective	5
Antiarthritic	5
Hypotensive	5

Activity	Chemical Count
Aldose-Reductase-Inhibitor	5
Spasmogenic	5
Antihistaminic	5
Anticariogenic	5
Antiacne	5
Antidiabetic	5
Antiprostatic	5
Antileukemic	5
Antiplateau	6
Colorant	6
Antiallergic	6
Prooxidant	6
Antitumor (Breast)	6
Essential	6
Diuretic	6
Choleretic	6
Antimutagenic	7
Antiencephalopathic	7
Analgesic	7
Antiacetylcholinesterase	7
Hypocholesterolemic	7
Hepatoprotective	7
Candidicide	7
Allelochemic	8
Antitumor	8
Expectorant	8
Antifeedant	8

Activity	Chemical Count
Sedative	9
Nematicide	9
Antiviral	9
Herbicide	10
Fungicide	11
Irritant	11
Allergenic	11
Antiulcer	12
Antispasmodic	13
Antiseptic	13
Antiinflammatory	14
Perfumery	16
Antibacterial	16
Insectifuge	17
FLavor	19
Antioxidant	20
Cancer-Preventive	22
Pesticide	24