

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Chemicals for Herbicide

Chemical	Dosage
1,3,7-TRIMETHYLXANTHINE	--
1,8-CINEOLE	IC50=78 uM
2-(1'-PENTENYL)-QUINOLINE	>500 ppm
2-(3',4'-METHYLENEDIOXYPHENYLETHYL)-QUINOLINE	>500 ppm
2-HYDROXY-3-O-TRANS-P-COUMARYL-1,2-PROPANE-DICARBOXYLIC-ACID	IC50=100-1,000 ppm
2-N-PENTYLQUINOLINE	>500 ppm
2-N-PROPYLQUINOLINE	>500 ppm
2-PHENYLETHYL-ISOTHIOCYANATE	--
3-ACETYL-6-METHOXYBENZALDEHYDE	--
3-HYDROXYURIDINE	IC50=40 uM
5,7-DIHYDROXYCHROMONE	IC100=6 mM
8(14),15-SANDARACOPIMARADIEN-7ALPHA,18-DIOL	--
ACHILLIN	IN35=100 uM
ALLYL-ISOTHIOCYANATE	IC100=0.4 mM
ALPHA-(METHYLENECYCLOPROPYL)GLYCINE	--
ALPHA-PINENE	IC50=30 uM
ALPHA-TERTHIENYL	--
AMINOLEVULINIC-ACID	--
ARTEMISINEN	IC50=33 uM
ARTEMISININ	IC50=33 uM
ASPERULOSIDE	--
AZETIDINE-2-CARBOXYLIC-ACID	--
BALFOURODINIUM	--
BENZOAZOLINONE	--
BENZYL-ISOTHIOCYANATE	IC100=0.4 mM
BETA-PINENE	--
BOA	--

Chemical	Dosage
BORNEOL	IC50=470 mM
BORNEOL	IC50=470 uM
CAFFEINE	--
CALEIN-A	IC25=50 uM
CAMPHOR	IC50=3.3-180 mM
CANAVANINE	--
CARBOXYATRACTYLOSIDE	--
CASTANOSPERMINE	IC50=300 ppb
CATECHOL	--
CINNAMALDEHYDE	--
CINNAMIC-ACID	--
CINNAMYL-ALCOHOL	2.5 mM
CIS-DEHYDROMATRICARIA	--
CIS-DEHYDROMATRICARIA-ESTER	--
CITRAL	IC50=115 uM
CITRONELLOL	IC50=160 uM
CNICIN	IC40-82=700 uM
CONIFERIN	IC90-95=1,000 uM
CUAUHTEMONE	--
CUMAMBRIN-B	IC70-90=1,000 uM
DEOXYPODOPHYLLOTOXIN	--
DESACETOXYMATRICARIN	--
DIBOA	IC100=0.5 mM
DIHYDROHEMATINIC-ACID	IC54=10 uM
EPOXYSEUDOISOEUGENOL-2-METHYLBUTYRIC-ESTER	--
EUGENOL	--
FERULIC-ACID	--

Chemical	Dosage
GAMMA-HYDROXY-L-ARGININE	--
GERANIOL	IC100=2,000 uM
GRANDINOL	IC50=80 uM
HARMAN	--
HARMANE	--
HEXAHYDRO-2H-AZEPIN-2-ONE	--
HOMOGRANDINOL	IC50=2 uM
HYDROQUINONE	IC41=50 ug/ml
HYDROXYEUCOMIC-ACID	--
HYPERICIN	--
ILICIC-ACID	IC 73=4,000 uM
INDOLE-3-ACETIC-ACID	--
ISOALANTOLACTONE	--
ISOHEMATINIC-ACID	IC54=10 uM
L-BAIKIAIN	--
L-CANALINE	--
L-HOMOARGININE	--
LIMONENE	IC50=45 uM
LYCORICIDINE	--
METHYL-ISOEUGENOL	--
MIMOSINE	IC100=5 mM
MYRTENAL	--
NARCICLASINE	--
NEPETALACTONE	--
NICOTINE	IC57=5 mM
O-METHOXYCINNAMALDEHYDE	5 mM
P-CYMENE	IC50=50 uM

Chemical	Dosage
P-METHOXYCINNAMALDEHYDE	5 mM
PARAXANTHINE	IC62=100 ppm
PINENE	IC50=30 mM
PIPERITONE	IC50=30 mM
PIPERITONE	IC50=75 uM
PIQUEROL-A	IC63=300 mM
PODOLACTONE-E	IC80=10uM
PODOPHYLLOTOXIN	50 ppm
PROTOANEMONIN	--
PULEGONE	IC50=1.5 uM
REPIN	IC50=200 mM
RISHITIN	--
SCOPOLETIN	--
SOLSTITIOLIDE	IC50=200 mM
TERPINEN-4-OL	IC50=22 uM
TERPINEN-4-OL	IC50=200 mM
THEOBROMINE	IC41=100 ppm
THEOPHYLLINE	IC58=100 ppm
THUJONE	IC50=22 mM
TRANS-4-HYDROXY-L-PROLINE	--
VISCIDULIN-C	IC30=100 uM
XANTHOTOXIN	--