

Diuron – CAS 330-54-1

Vyhledejte toxicitu v ECOTOX databázi a namodelujte pomocí ECOSAR

Akutní toxicita LC50,EC50,IC50 pro:

*Danio rerio**Daphnia magna**Raphidocelis subcapitata* (*Pseudokirchneriella subcapitata*)

Akutní toxicita <4d

Pozor na čistotu látky >90%

Pozor na extrémně odlehle hodnoty

Vypočítejte geometrický průměr koncentrací (Excel – funkce Geomean)

Výsledky vyhledávání a predikce odevzdejte v Excelu do Odevzdávárny

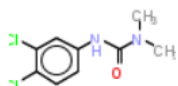
	CAS Number	Chemical Name	Chemical Group	Chemical A	Chemical P	Chemical P
						>90
Danio rerio						
LC50:	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl	Unmeasured			98
EC20 (gene expression):	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
IC20 (estrogen receptor protein):	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
Daphnia magna						
LC50:	330541	N'-(3,4-Dichlorophenyl	Technical g	Unmeasured		99.4
EC50/IC50 (immobility):	330541	N'-(3,4-Dichlorophenyl	Analytical F	Unmeasured	<=	99.4
	330541	N'-(3,4-Dichlorophenyl	Technical g	Unmeasured		98.5
Raphidocelis subcapitata						
LC50:	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl)-N,N-dimethylurea				96.8
	330541	N'-(3,4-Dichlorophenyl	Unmeasured	>		98
	330541	N'-(3,4-Dichlorophenyl)-N,N-dimethylurea				96.8
EC50 (PSII electron transport activity):	330541	N'-(3,4-Dichlorophenyl	Unmeasured			98
	330541	N'-(3,4-Dichlorophenyl	Unmeasured			98
IC50 (population growth rate):	330541	N'-(3,4-Dichlorophenyl	Technical g	Unmeasured		98.5
Danio rerio						
EC20 (gene expression) geomean:	0.476511	AI	mg/L			
IC20 (ERP geomean):	6.992916	AI	mg/L			
Daphnia magna						
LC50 geomean:	7.484751	AI	mg/L			
EC50 (immobility) geomean:	3.794733	AI	mg/L			
Raphidocelis subcapitata						
LC50 geomean:	0.010392	AI	mg/L			
IC50 (population growth rate) geomean:	0.1	AI	mg/L			

Organic Module Report

Results of Organic Module Evaluation

CAS	Name	SMILES
330541	Diuron	<chem>O=C(N(C)C)Nc1ccc(Cl)c(Cl)c1</chem>

Structure



Details	
Mol Wt	233.1
Selected LogKow	
Selected Water Solubility (mg/L)	
Selected Melting Point (°C)	
Estimated LogKow	2.67
Estimated Water Solubility (mg/L)	34.06
Measured LogKow	2.68
Measured Water Solubility (mg/L)	42
Measured Melting Point (°C)	158

Classification
Neutral Organics

Organism	Du
Fish	96h

Organism	Du
Daphnid	48h
Green Algae	96h
Fish	
Daphnid	
Green Algae	
Fish (SW)	96h
Mysid	96h
Fish (SW)	
Mysid (SW)	
Earthworm	14d

Chemical P Chemical P Chemical P Chemical P Species Sci Species Co Species Grc Organism L Organism A

Danio rerio Zebra Dani Fish; Stand Embryo
Danio rerio Zebra Dani Fish; Stand Sexually mature
Danio rerio Zebra Dani Fish; Stand Embryo
Danio rerio Zebra Dani Fish; Stand Embryo
Danio rerio Zebra Dani Fish; Stand Not intact
Danio rerio Zebra Dani Fish; Stand Not intact
Danio rerio Zebra Dani Fish; Stand Not intact

Daphnia m. Water Flea Crustaceans; Standard Test Specie
Daphnia m. Water Flea Crustacean Neonate
Daphnia m. Water Flea Crustacean Neonate <

Raphidocel Green Alga Algae
Raphidocel Green Alga Algae
Raphidocel Green Alga Algae
Raphidocel Green Alga Algae
Raphidocel Green Alga Algae Exponential growth ph
Raphidocel Green Alga Algae Exponential growth ph
Raphidocel Green Alga Algae Neonate <

Substituted Ureas

Ass Results:

irration	End Point	Concentration (mg/L)	Max Log Kow	Flags
	LC50	4,77E01	5	<ul style="list-style-type: none"> Chemical may not be soluble enough to measure this predicted effect. If the effect level exceeds the water solubility by 10X, typically no effects at saturation (NES) are reported

irration	End Point	Concentration (mg/L)	Max Log Kow	Flags
	LC50	2,88E01	5	
	EC50	2,77E01	6,4	
	ChV	5,01E00	8	
	ChV	3,34E00	8	
	ChV	8,34E00	8	
	LC50	6,02E01	5	<ul style="list-style-type: none"> Chemical may not be soluble enough to measure this predicted effect. If the effect level exceeds the water solubility by 10X, typically no effects at saturation (NES) are reported
	LC50	2,84E01	5	
	ChV	9,86E00	8	
	ChV	2,01E00	8	
	LC50	3,45E02	6	<ul style="list-style-type: none"> Chemical may not be soluble enough to measure this predicted effect. If the effect level exceeds the water solubility by 10X, typically no effects at saturation (NES) are reported

Organism	
Fish	96h
Daphnid	48h
Green Algae	96h
Fish	
Daphnid	
Green Algae	
Fish (SW)	96h
Mysid (SW)	96h
Fish (SW)	
Mysid (SW)	

Organism A Organism A Organism A Organism A Organism A Age Units Exposure Type Media Type Test Location

6		Hours post Renewal	Fresh water Lab
		Renewal	Fresh water Lab
6		Hours post Renewal	Fresh water Lab
6		Hours post Renewal	Fresh water Lab
		In Vitro	Culture Lab
		In Vitro	Culture Lab
		In Vitro	Culture Lab

s			Aquatic - n	Fresh water Lab
			Static	Fresh water Lab
24		Hour(s)	Static	Fresh water Lab

			Static	Salt water Lab
			Static	Fresh water Lab
			Static	Salt water Lab
			Static	Fresh water Lab
ase (log)			Static	Fresh water Lab
ase (log)			Static	Fresh water Lab
24		Hour(s)	Static	Fresh water Lab

Duration	End Point	Concentration (mg/L)	Max Log Kow	Flags
	LC50	1,81E01	5	
	LC50	5,22E00	5	
	EC50	1,77E-01	6,4	
	ChV	4,96E-01	8	
	ChV	5,47E-01	8	
	ChV	6,61E-02	8	
	LC50	9,81E00	5	
	LC50	2,45E00	5	
	ChV	5,19E-01	8	
	ChV	1,71E-01	8	

Number of Conc 1 Typ Conc 1 Me; Conc 1 Me; Conc 1 Min Conc Min 1 Conc 1 Ma) Conc 1 Ma; Conc 1 Uni

7 Active ingredient	6.983592			AI mg/L
2 Active ingredient	0.001			AI mg/L
8 Active ingredient	0.463863			AI mg/L
8 Active ingredient	0.489504			AI mg/L
Active ingr>	6.992916			AI mg/L
Active ingr>	6.992916			AI mg/L
Active ingr>	6.992916			AI mg/L
8 Active ingredient	7.484751			AI mg/L
6 Active ingredient	7.2			AI mg/L
Active ingredient	2			AI mg/L
Active ingredient	0.045			AI mg/L
Active ingredient	0.0024	0.002	0.0028	AI mg/L
Active ingredient	0.015			AI mg/L
Active ingredient	0.00044			AI mg/L
Active ingr<	10.02318			AI mg/L
Active ingr<=	58.2743			AI mg/L
Active ingr<	0.1			AI mg/L

Conc 2 Typ Conc 2 Me; Conc 2 Me; Conc 2 Min Conc Min 2 Conc 2 Ma; Conc 2 Ma; Conc 2 Uni; Conc 3 Typ

Conc 3 Me; Conc 3 Me; Conc 3 Min Conc Min 3 Conc 3 Ma; Conc 3 Ma; Conc 3 Uni Effect Effect Mea

Mortality Mortality
Mortality Mortality
Genetics Gene expre
Genetics Gene expre
Biochemist Estrogen re
Biochemist Estrogen re
Biochemist Estrogen re

Mortality Mortality
Intoxicatio Immobile
Intoxicatio Immobile

Population Abundance
Population Abundance
Population Abundance
Population Abundance
Physiology Photosyste
Physiology Photosyste
Population Population

Duration Units (Days)