

Substance parameters - Soilless**Remarks / refinement options***General*

Substance code

Name

Molar mass (g mol⁻¹)

505,2

saturated vapour pressure (pa)

1,10E-06 at

20 °C

Molar enthalpy of vaporisation (kJ mol⁻¹)

95

Solubility in water (mg L⁻¹)

2,70E-07 at

20 °C

0.001 minimum in GEM

Molar enthalpy of dissolution (kJ mol⁻¹)

27

Reference diffusion coefficient in water (m² d⁻¹)

4,30E-05 at

20 °C

Reference diffusion coefficient in air (m² d⁻¹)

0,43 at

20 °C

Octanol-Water partitioning coefficient (-)

39811

(Log Pow = 4.6)

*Sorption - surface water*Kom (L kg⁻¹)

5940000

10240000 / 1.724

Freundlich sorption exponent

0,93

Reference concentration (mg L⁻¹)

1

Coefficient for linear sorption on macrophytes (L kg⁻¹)

0

*Sorption - sediment*Kom (L kg⁻¹)

5940000

Freundlich sorption exponent

0,93

Reference concentration (mg L⁻¹)

1

*Sorption - substrate*Kom (L kg⁻¹)

5940000

Transformation - surface water

DT50 (d)

1000 at

20 °C

as koc>2000 L/kg

Molar activation energy (kJ mol⁻¹)

65,4

Transformation - sediment

DT50 (d)	65 at	20 °C
Molar activation energy (kJ mol ⁻¹)	65,4	

Transformation - other

Half-life in recirculation water (d)	1000 at	20 °C	hydrolysis DT50 / OECD 309 or outdoor mesocosms
Molar activation energy (kJ mol ⁻¹)	75		
half-life in disinfection tank (d)	1000 at	20 °C	hydrolysis DT50
Half-life on the greenhouse floor (d)	100 at	20 °C	not suggested
Half-life in substrate (d)	1000 at	20 °C	Soil DT50 (field), which is 28.3 (not used)
Half-life in greenhouse air (d)	100 at	20 °C	DT50 air
Molar activation energy (kJ mol ⁻¹)	45		

Crop processes

canopy process option	lumped
Half-life on crop canopy (d)	10

Substance parameters - Soil bound*General*

Substance code

Name

Molar mass (g mol ⁻¹)	505,2	
saturated vapour pressure (pa)	1,10E-06 at	20 °C
Molar enthalpy of vaporisation (kJ mol ⁻¹)	95	
Solubility in water (mg L ⁻¹)	2,70E-07 at	20 °C
Molar enthalpy of dissolution (kJ mol ⁻¹)	27	
Reference diffusion coefficient in water (m ² d ⁻¹)	4,30E-05 at	20 °C
Reference diffusion coefficient in air (m ² d ⁻¹)	0,43 at	20 °C
Octanol-Water partitioning coefficient (-)		

Sorption - soil - equilibrium

Option	Kom, pH-independent	
Kom (L kg ⁻¹)	5940000 at	20 °C
Freundlich sorption exponent	0,93	
Reference concentration in liquid phase (mg L ⁻¹)	1	
Molar enthalpy of sorption (L kg ⁻¹)	0	

Sorption - soil - non-equilibrium

Desorption rate coefficient (d ⁻¹)	0
Factor relating Freundlich coefficient for non-equilibrium sorption and equilibrium sorption (-)	0

Sorption - surface water

Kom (L kg ⁻¹)	5940000
Freundlich sorption exponent	0,93
Reference concentration (mg L ⁻¹)	1
Coefficient for linear sorption on macrophytes (L kg ⁻¹)	0

Sorption - sediment

Kom (L kg-1)	5940000	
Freundlich sorption exponent	0,93	

Transformation - soil - aerobic

DT50	28,3 at	20 °C
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Molar activation energy (kJ mol-1)	65,4	
Option moisture condition (pF = 2 or wetter)	yes	
Walker (-)	0,7	

Transformation - surface water

DT50 (d)	1000 at	20 °C
Molar activation energy (kJ mol-1)	65,4	

Transformation - sediment

DT50 (d)	65 at	20 °C
Molar activation energy (kJ mol-1)	65,4	

Crop processes

Wash-off factor (m-1)	0,0001	
canopy process option	lumped	
Half-life on crop canopy (d)	1000000	
Coefficient for uptake by plant (TSCF) (-)	0	

Crop	Strawberry	Sweet pepper	Courgette	Cucumber	Aubergine
GEM Crop	Strawberry	Sweet pepper	Courgette	Cucumber	Aubergine
Applications	2	3	3	3	3
Dose (kg/ha)	0,005	0,0175	0,0175	0,0175	0,0175
interval	14	7	7	7	7

RAC (µg/L) 0,0032

Results (µg/L)

DATE	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)
8th Jan										
15th Jan	452	5,00E-06	420	1,90E-05	430	9,00E-06	453	9,00E-06	454	9,00E-06
22nd Jan										
8th Feb			463	2,90E-05	465	1,60E-05				
15th Feb	441	8,00E-06	421	2,90E-05	431	1,60E-05	444	1,60E-05	445	1,50E-05
22nd Feb			464	2,70E-05	467	1,50E-05				
15th Mar	398	7,00E-06	399	2,70E-05	400	1,30E-05	401	1,30E-05	402	1,20E-05
15th Apr			380	1,60E-05	432	6,00E-06				
15th May			422	1,30E-05	433	3,00E-06				
15th Jun			423	3,00E-06	434	1,00E-06				
15th Jul			424	1,00E-06	435	1,00E-06				
15th Aug			425	1,00E-06	436	1,00E-06				
15th Sep			426	4,00E-06	437	1,00E-06				
15th Oct			427	6,00E-06	438	3,00E-06				
15th Nov			428	4,00E-06	439	4,00E-06				
15th Dec			429	1,00E-05	440	5,00E-06				

Purification 0,95

Results including purification (µg/L)

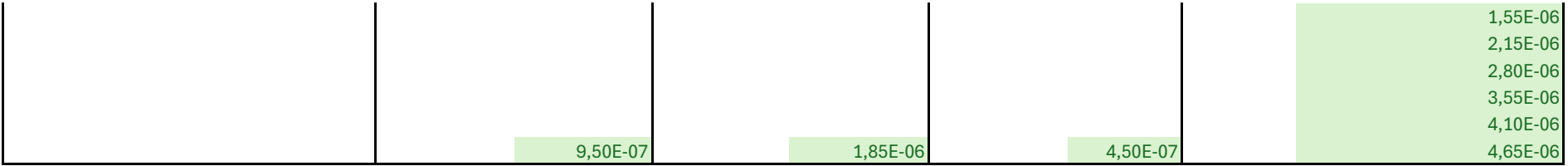
8th Jan						
15th Jan	2,50E-07	9,50E-07	4,50E-07	4,50E-07	4,50E-07	
22nd Jan						
8th Feb		1,45E-06	8,00E-07			
15th Feb	4,00E-07	1,45E-06	8,00E-07	8,00E-07	7,50E-07	
22nd Feb		1,35E-06	7,50E-07			
15th Mar	3,50E-07	1,35E-06	6,50E-07	6,50E-07	6,00E-07	
15th Apr		8,00E-07	3,00E-07			
15th May		6,50E-07	1,50E-07			
15th Jun		1,50E-07	5,00E-08			

15th Jul		5,00E-08	5,00E-08	
15th Aug		5,00E-08	5,00E-08	
15th Sep		2,00E-07	5,00E-08	
15th Oct		3,00E-07	1,50E-07	
15th Nov		2,00E-07	2,00E-07	
15th Dec		5,00E-07	2,50E-07	

Tomato, tomatillo	Flower bulb	ornamentals	Lamb's lettuce	Sprouts
Tomato	winter bulb	cut flower	lettuce	watercress
3	3	3	2	2
0,0125	0,0125	0,0125	0,0125	0,0125
7	7	7	7	7

RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)
								468	9,50E-05
455	6,00E-06	456	2,30E-05	457	4,60E-05	458	1,30E-05	382	9,40E-05
								469	9,20E-05
446	1,10E-05	447	3,00E-05	448	5,60E-05	449	1,90E-05	383	9,10E-05
403	1,00E-05	404	2,50E-05	405	4,80E-05	408	1,60E-05	384	7,60E-05
								379	5,80E-05
								385	4,20E-05
								386	2,50E-05
								387	3,10E-05
								388	4,30E-05
								389	5,60E-05
								390	7,10E-05
								391	8,20E-05
		460	1,90E-05	461	3,70E-05	462	9,00E-06	392	9,30E-05

					4,75E-06
3,00E-07	1,15E-06	2,30E-06	6,50E-07		4,70E-06
					4,60E-06
5,50E-07	1,50E-06	2,80E-06	9,50E-07		4,55E-06
5,00E-07	1,25E-06	2,40E-06	8,00E-07		3,80E-06
					2,90E-06
					2,10E-06
					1,25E-06



Herbs	perennial, floriculture
heartsease	Potplants
2	3
0,0125	0,0125
7	7

RUNID	PECsw (µg/L)	RUNID	PECsw (µg/L)
459	4,00E-06	409	7,00E-06
		470	8,00E-06
450	5,00E-06	410	8,00E-06
		471	8,00E-06
406	6,00E-06	407	7,00E-06
472	5,00E-06	411	7,00E-06
		412	5,00E-06
		413	3,00E-06
		414	3,00E-06
		415	3,00E-06
		416	3,00E-06
		417	4,00E-06
		418	5,00E-06
		419	6,00E-06

2,00E-07	3,50E-07
2,50E-07	4,00E-07
	4,00E-07
	4,00E-07
3,00E-07	3,50E-07
2,50E-07	3,50E-07
	2,50E-07
	1,50E-07

			1,50E-07
			1,50E-07
			1,50E-07
			2,00E-07
			2,50E-07
			3,00E-07

Crop	fruiting veg	ornamentals
GEM Crop	gherkin	cut flower
Applications	3	3
Dose (kg/ha)	0,0175	0,0125
interval	7	7
RUNID	394	395

RAC (µg/L) 0,0032

Results (µg/L)

30 May	1,00E-06	1,00E-06
Result x 2	2,00E-06	2,00E-06

Purification 0,95

Results including purification (µg/L)

30 May	5E-08	5,00E-08
Result x 2	1,00E-07	1,00E-07

Major

20130956 NLTG

30-8-2019

Toepassingsgebied	Werkzaamheid getoetst op	Dosering* middel per toepassing	Maximale dosering middel per toepassing	Maximaal aantal toepassingen per 12 maanden
Aardbei (bedekte teelt)	Trips 5,14,19, rupsen ^{6, 20, 21, 22, 23, 24, 34,} aardbeibloesemkever ²⁵	0,033% (33 ml /100 L water)	0,33 L/ha	2 per 12 maanden
~~Sla (<i>Lactuca</i> spp.)~~ (bedekte teelt)	~~Rupsen^{6, 32, 33, 34}~~	~~0,083% (83 ml /100 L water)~~	~~0,83 L/ha~~	~~2 per 12 maanden~~
Vruchtgroenten van <i>Cucurbitaceae</i> met eetbare schil (bedekte teelt)	rupsen ^{6, 33, 35} , wittevlies ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	1,17 L/ha	3 per 12 maanden
Meloen (bedekte teelt)	rupsen ^{6, 33, 35} , wittevlies ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	1,17 L/ha	3 per 12 maanden
Aubergine (bedekte teelt)	rupsen ^{6, 33, 35} , wittevlies ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	1,17 L/ha	3 per 12 maanden
Tomaat (bedekte teelt)	rupsen ^{6, 33, 35} , wittevlies ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden
Paprika (bedekte teelt)	rupsen ^{6, 33, 35} , wittevlies ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	1,17 L/ha	3 per 12 maanden
Bloembol- en bloemknolgewassen (bedekte teelt)	~~rupsen^{6, 32, 33, 34, 35, 49, 50, 51, 52, 53,}~~ ,52,53,54,55,56, mineervlieg ^{37, 40} , trips ⁵ , 10,14,19,47, wittevlies ³⁶ ,	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden
Bloemisterijgewassen (bedekte teelt)	Rupsen ^{6, 32, 33, 35,} mineervlieg ^{37, 40} ,	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden
Boomkwekerijgewassen (bedekte teelt)	Rupsen ^{6, 32, 33, 34, 35, 49, 50, 51, 52, 53,}	0,083% (83 ml /100 L water)	0,25 L/ha	3 per 12 maanden
Vaste plantenteelt (bedekte teelt)	Rupsen ^{6, 32, 33, 35,} mineervlieg ^{37, 40} ,	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden

minor

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20191546 NLKUG

4-6-2021

Veldsla, rucola (bedekte teelt)	Rupsen ^{6,32,33,34}	0,083% (83 ml /100 L water)	0,83 L/ha	2 per 12 maanden
Kiemgroenten, babyleaves (bedekte teelt)	Rupsen ^{6,32,33,34}	0,083% (83 ml /100 L water)	0,83 L/ha	2 per 12 maanden
Pompoen-achtigen en watermeloen (bedekte teelt)	ru ^{6,33,35} psen ³⁶ , wittevl ³⁶ ieg ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	1,17 L/ha	3 per 12 maanden
Tomatilo (bedekte teelt)	ru ^{6,33,35} psen ³⁶ , wittevl ³⁶ ieg ³⁶ , trips ¹⁹	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden
Radijs (bedekte teelt)	Rupsen ⁶ , trips 19	0,083% (83 ml /100 L water)	0,83 L/ha	2 per 12 maanden
Aromatische kruidgewassen, medicinale kruidgewassen (bedekte teelt)	Rupsen ^{6,32,33,34}	0,083% (83 ml /100 L water)	0,83 L/ha	2 per 12 maanden
Bloemenzaadteelt (bedekte teelt)	Mineervlieg ^{37,40} , Rupsen ^{6,32,33,35} , Wittevl ³⁶ ieg ³⁶ , Trips ¹⁹	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden
Veredeling en zaadteelt (bedekte teelt)	Mineervlieg ⁷¹ , Rupsen ^{64,,} , Trips ⁶¹	0,083% (83 ml /100 L water)	0,83 L/ha	3 per 12 maanden

Maximaal aantal liter middel per ha per teeltcyclus of per 12 maanden	Minimum interval tussen toepassingen in dagen	Veiligheidstermijn in dagen	kg a.s./ha per toepassing	BBCH	Opmerkingen
0,66 L/ha per 12 maanden	14	3	0,005	50-57	
1,66 L/ha per 12 maanden	7	14	0,0125	BBCH 10-79	Removed from label, 12-2-2025
3,5 L/ha per 12 maanden	7	3	0,0175	15-89	
3,5 L/ha per 12 maanden	7	3	0,0175	15-89	
3,5 L/ha per 12 maanden	7	3	0,0175	15-89	
2,5 L/ha per 12 maanden	7	3	0,0125	15-89	
3,5 L/ha per 12 maanden	7	3	0,0175	15-89	
2,5 L/ha per 12 maanden	7		0,0125	15-60	
2,5 L/ha per 12 maanden	7		0,0125	BBCH 10-60	
0,75 L/ha per 12 maanden	7		0,0038	15-89	
2,5 L/ha per 12 maanden	7		0,0125	BBCH 10-60	

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1,66 L/ha per 12 maanden	7	14
1,66 L/ha per 12 maanden	7	14
3,5 L/ha per 12 maanden	7	3
2,5 L/ha per 12 maanden	7	3
1,66 L/ha per 12 maanden	7	7
1,66 L/ha per 12 maanden	7	14
2,5 L/ha per 12 maanden	7	
2,5 L/ha per 12 maanden	7	

0,0125 BBCH 11-49

0,0125 BBCH 11-49

0,0175 15-89

0,0125 15-89

0,0125 BBCH 12-49

0,0125 BBCH 11-49

0,0125 BBCH 10-60

0,0125 BBCH 10-60