

Concentration calculation according to Koblizkova et al. 2012 and Estellano et al. 2015

$$V_{air} = (K'_{psm-a}) \times (\text{Volume of PSM}) \times \{1 - \exp[-(\text{Time}) \times (k_A)/(K'_{psm-a})/(D_{film})]\}$$

A template compiling the necessary data was kindly provided by T. Harner, Air Quality Research Division; Environment and Climate Change Canada (ECCC) / Government of Canada

	Pendimethalin 744/1000	Pendimethalin all sites (49)	Pendimethalin seven sites over 1000 ng/sample	Chlorthalonil 742/1002	Chlorthalonil all sites (49)	Chlorthalonil seven sites over 1000 ng/sample	Chlorpyrifos-ethyl 749/1008
a	-5,606308725	-5,606308725	-5,606308725	-3,903959732	-3,903959732	-3,903959732	-4,18
b	4603	4603	4603	3455	3455	3455	3751
Temperature in C*	14,7	14,5	14,5	14,3	14,5	14,5	14,5
Temperature in K	287,85	287,65	287,65	287,45	287,65	287,65	287,65
Volume PSM	0,000209524	0,000209524	0,000209524	0,000209524	0,000209524	0,000209524	0,000209524
PSM density	21000	21000	21000	21000	21000	21000	21000
Exposure time (1/3)	69	69,7	69,7	70	69,7	69,7	70
Dfilm	0,00567	0,00567	0,00567	0,00567	0,00567	0,00567	0,00567
k_A (m/day)	108	108	108	108	108	108	108
log KOA	10,385	10,396	10,396	8,116	8,107	8,107	8,860
log Kpsm-a, PUF	3,433	3,441	3,441	1,989	1,984	1,984	2,463
K_psm-a	2713,145	2757,725	2757,725	97,486	96,299	96,299	290,384
K'_psm-a	56976041,226	57912219,868	57912219,868	2047201,294	2022276,194	2022276,194	6098073,736
Exponent	-0,023	-0,023	-0,023	-0,651	-0,656	-0,656	-0,219
V_air	272,222	275,004	275,004	205,302	203,949	203,949	250,933
ng/sample	3916,765	21942,000	1984,828	1866,199	23247,300	1401,568	210,6999284
No of collected PUF	3	147	3	3	147	3	3
ng/PUF	1305,588	149,265	661,609	622,066	158,145	467,189	70,233
ng/m³	4,796	0,543	2,406	3,030	0,775	2,291	0,280
pg/m³	4796,04	542,78	2405,82	3030,00	775,41	2290,72	279,89

* Temperatur estimates according to the data collected for different Länder in Klimastatusbericht Deutschland Jahr 2019; Deutscher Wetterdienst; https://www.dwd.de/DE/leistungen/klimastatusbericht/publikationen/ksb_2019.html