

Table 7.1.3.1.2-35: Recovery in soil after adsorption/desorption phases

Soil	Treatment Concentration (µg/mL)	% of Applied SYN545245 in			Total
		Adsorption Supernatant	Desorption Total Aqueous Phase	Soil Extract	
Gartenacker	4.805	41.5	52.9	<0.1	94.4
	4.805	40.9	52.8	3.5	97.3
	1.595	39.7	53.0	<0.1	92.7
	1.595	40.4	52.7	<0.1	93.0
	0.517	37.0	54.2	0.6	91.8
	0.517	38.7	57.6	<0.1	96.3
	0.160	39.5	52.5	<0.1	92.0
	0.160	40.0	53.5	2.3	95.7
	0.052	39.2	55.7	<0.1	95.0
	0.052	36.5	50.9	4.2	91.6
18 Acres	4.805	45.3	48.3	3.5	97.1
	4.805	41.4	46.3	3.6	91.2
	1.595	40.7	48.0	2.9	91.5
	1.595	44.5	46.8	1.8	93.0
	0.517	39.9	47.0	2.1	89.1
	0.517	42.2	43.6	3.0	88.9
	0.160	42.4	44.4	5.1	91.9
	0.160	40.8	44.3	1.1	86.2
	0.052	40.2	47.0	5.2	92.4
	0.052	37.0	46.0	5.7	88.8
East Anglia	4.805	48.7	41.9	2.9	93.5
	4.805	50.9	41.4	1.6	93.8
	1.595	51.6	41.4	0.9	93.9
	1.595	50.7	41.1	<0.1	91.9
	0.517	48.4	42.9	1.1	92.3
	0.517	50.2	43.1	0.5	93.8
	0.160	50.1	41.2	0.3	91.6
	0.160	51.0	42.6	0.8	94.3
	0.052*	51.0	54.4	n.a.	n.a.
	0.052*	53.1	46.4	n.a.	n.a.

* Due to the initial low adsorption, it was not possible to accurately determine the soil concentration after desorption, hence this dose rate is excluded from the mass balance calculation.

Conclusions

SYN545245 adsorbed to all three soils with a mean K_{FOC} value of 6.8 mL/g and mean slope (1/n) of 0.93. The mean K_{FOC} and slope (1/n) values for desorption of SYN545245 from all three soils were 9.5 mL/g and 0.95, respectively.