Diffusion of linalool and methylchavicol from polyethylene-based antimicrobial packaging films

Table 1: Effect of temperature on the migration of linalool and methylchavicol from LDPE-based films into isooctane

Agent	Temperature T/°C	Thickness[1] L × 10^6/m	Diffusion Coeff.[2] D × 10^{12}/m^2 s^{-1}	Rate Constant[3] k/s^{-1}	Hill Coeff.[4] n
linalool	4	47.0	0.42^a	250.7^c	1.92
	10	47.3	0.68^b	167.2^b	1.87
	25	48.4	2.46^c	44.5^a	1.93
methylchavicol	4	48.0	0.35^a	346.0^c	1.72^b
	10	48.7	0.44^b	296.7^b	1.35^a
	25	47.5	1.10^c	99.1^a	1.67^b

[1] For each AM agent, thickness values are non-significantly different ($p > 0.05$).

[2] For each AM agent, *D* values with different letters are significantly different ($p \leq 0.01$).

[3] Rate constant obtained by nonlinear regression. For each AM agent, *k* values with different letters are significantly different ($p \leq 0.01$).

[4] For each AM agent, *n* values with different letters are significantly different ($p \leq 0.05$).