

Solutions with a RMSE < 15 %*

Compound	Min RMSE (%)	C* ($\mu\text{g m}^{-3}$)	$1/k_{\text{wall/g}}$ (min)	m_{wall} (mg m^{-3})	k_{OH} ($\text{cm}^3 \text{ molecules}^{-1} \text{ s}^{-1}$)
Mannosan*	15.4	3–10	15–25	1.6–25	$5 \times 10^{-12} - 1 \times 10^{-10}$
Coniferyl aldehyde	12.4	8–25	5–10	12.8–25	$5 \times 10^{-12} - 1 \times 10^{-10}$
3-Guaiacyl propanol	11.3	4–25	5–15	3.2–25	$5 \times 10^{-12} - 1 \times 10^{-10}$
Acetosyringone	8	2–25	5–25	1.6–25	$5 \times 10^{-12} - 1 \times 10^{-10}$