

among all models, Weber-Van Vliet and Fritz–Schlunder (IV) models which have the highest correlation and the lowest errors (HYBRID) (0.017135, 0.017639), (MPSD) (0.000093, 0.000090) and (ARE) (0.007981, 0.007880) are the best models subsequently. The kinetic results showed that the Logergren model, with the highest correlation ($R^2= 0.9752$) coefficient, was the best fit with the experimental data.

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