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Water Sorption Analysis in Vegetables Using a Mod Astakhov Equation

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Water sorption isotherms at 298 K for six kinds of fresh vegetable (Japanese radish), eggplant, potato, pumpkin and sweet-potato) we static equilibration method over saturated salt solutions in the relative 11.3 to 97.3%. The equilibrium moisture content data were fitted to Astakhov (DA) equation that assumes a Weibull probability density desorption probability under the adsorption potential change. The r was confirmed to be very accurate in predicting the water sorption vegetables. In addition, the test vegetables could be classified into (one of the DA parameters) values, which denote the porous degre

group consisted of carrot, eggplant and pumpkin. Daikon, potato a belonged to the other group.

Keywords: vegetable, water sorption, isotherm, modified Dubininadsorption potential

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