NOTATION

A	area	m^2
A, B, C, D, E, F, K, X_m, a, a, b, c, d, e, m, n, r, a'', k	constants of equations	-
a_w	water activity	-
Bi	Biot number	-
C	water concentration	kg/m^3
D	water diffusivity	m^2/s
d.m.	dry matter (meat+salt)	kg
D_0	preexponential factor	m^2/s
D_e	effective moisture diffusivity	m^2/s
D_s	salt diffusivity	m^2/s
E	relative error	%
E_0	Empirical equation parameter	J/mol
f	fugacity	-
F_o	Fourier number	-
j	water flux or mass flux	kg/m^2 s
k	Boltzmann constant (=$13.8062 \cdot 10^{-24}$)	J/K
k_y	external mass transfer coefficient	kg/m^2 s
m	shrinkage indicator m=1 for 1 dimensional, 2 for 2D, 3 for 3D	-
m	isotherm slope	-
m_s	solid mass	kg
n	coordinate system indicator n=0 for plate, 1 for cylinder, 2 for sphere	-
p	vapour pressure	Pa
P	pressure	Pa
Q_s	sorption heat	J/mol
R	gas constant (=8.31441)	J/mol K
r	local distance or radius of diffusin particle	m

R	actual size (thickness of the slab)	m
R^2	coefficient of determination	-
R_0	hypothetical dimension of a bone dry solid	m
s_1	empirical shrinkage coeficient	-
T	temperature	K
t	temperature	ºC
U	series or equation term	-
V	volume	m^3
w	mass fraction	-
w_D	drying rate	kg H_2O/m^2 s
w_s	salt concentration	kg NaCl/kg H_2O
W	accumulated diffusan release or uptake	kg
X	water content	kg H_2O/kg dm
x, y, z	space coordinates	-
X_m	monolayer water in BET and GAB equation	kg H_2O/ d.m.
X_s	Salt content	kg NaCl/kg dm
Y	absolute humidity of the air	kg H_2O/kg dry air
E_α	activation energy	J/mol

Greek letters

Φ	normalized moisture content $(\overline{X}-X^*/X_0-X^*)$	
δ	normalized thickness	
ε	porosity or shrinking coefficient	
η	viscosity	Pa s
φ	air relative humidity	%
λ	eigen value	-
ρ	density	kg/m^3
ρ_L	liquid moisture density	kg/m^3
ρ_m	solid density	kg/m^3
ρ_v	density of d.m. considering wet volume	kg d.m./m^3 wet volume
τ	time	s

ζ	normalized local distance	r/R

Superscripts

'	final
*	at interface, at equilibrium
—	average
0	activity calculated for a given product and total water available in the mixture
B	medium
V	volume

Subscripts

∞	infinite time
a	atmosphere
A,B	compartments in diaphragm cell
B	in BET equation
G	in GAB equation
g	gas
i, 0, 1, 2, 3, n	component number or temperature levels or constant number
m	material
RA, RB	at surface
ref	reference point
s	salt
sT	salt and temperature dependent
w	water
wb	wet basis
x	water content
τ	limit time

Statistical parameters

μ	model average
S_i	effect of level i of NaCl content

l_{ij}	sample length
b	constant (slope of regresion)
T_i	effect of i level of temperature
F_i	effect of i level of fiber
M_i	effect of i level of muscle
pH_i	effect of i level of pH