



OLI Tips #45

Traditional (Bromley) Aqueous model Regression Parameters

The regression parameters for each variable are **Bold-faced**

K-VALUE COEFFICIENTS **A, B, C, D**
K-VALUE COEFFICIENTS **E, F, G**
BROMLEY **B1, B2, B3**
BROMLEY **C1, C2, C3**
BROMLEY **D1, D2, D3**
PITZER BETA0 (1), BETA0 (2), BETA0 (3) (**B01,B02,B03**)
PITZER BETA1 (1), BETA1 (2), BETA1 (3) (**B11,B12,B13**)
REACTION KINETICS **AF, BF, AR, BR**
REACTION KINETICS **ER1, ER2, ..., ER10**
REACTION KINETICS **EP1, EP2, ..., EP10**
ION EXCHANGE, **BEX1**
ION EXCHANGE, **AIJ, AJI, DIJ**
SRK **KIJ, GIJ**
SRK **KIJ0, KIJ1, KIJ2** (KIJ0 IS EQUIVALENT TO KIJ (NO. 56))
PITZER DENSITY BETA0 (1), BETA0 (2), BETA0 (3) (**BD01,BD02,BD03**)
PITZER DENSITY BETA1 (1), BETA1 (2), BETA1 (3) (**BD11,BD12,BD13**)
HELG **HW, HA1, HA2, HA3, HA4, HC1, HC2, GREF, SREF, HREF**

Full Pitzer Framework (Hanford)

Binaries

beta(0) = **PB01, PB02, ..., PB08**
beta(1) = **PB11, PB12, ..., PB18**
beta(0) = **PB21, PB22, ..., PB28**
C(0) = **PC01, PC02, ..., PC08**

Ternaries/Binaries

lambda = **PLAM1, PLAM2, ..., PLAM6**
theta = **PTHE1, PTHE2, ..., PTHE6**
psi = **PPSI1, PPSI2, ..., PPSI6**

Solid CP, G, H, S AND V

CP

CPS1
CPS2
CPS3
CPS4
CPS5

G, H, S, and V

GRFS

HRFS

SRFS

VRFS