

TSUBOKA-KATAYAMA-WILSON MODEL

$$\ln \gamma_i = \ln \left(\sum_{j=1}^{nk} x_j (v_j/v_i) \right) + \sum_{k=1}^{nk} \frac{x_k (v_i/v_k)}{\sum_{j=1}^{nk} x_j (v_j/v_k)} - \ln \left(\sum_{j=1}^{nk} x_j \Lambda_{ij} \right) - \sum_{k=1}^{nk} \frac{x_k \Lambda_{ki}}{\sum_{j=1}^{nk} x_j \Lambda_{kj}}$$

$$\Lambda_{ij} = \frac{v_j}{v_i} \exp \left(- \frac{\lambda_{ij}}{RT} \right)$$

$$v_{ij} = v_j/v_i$$