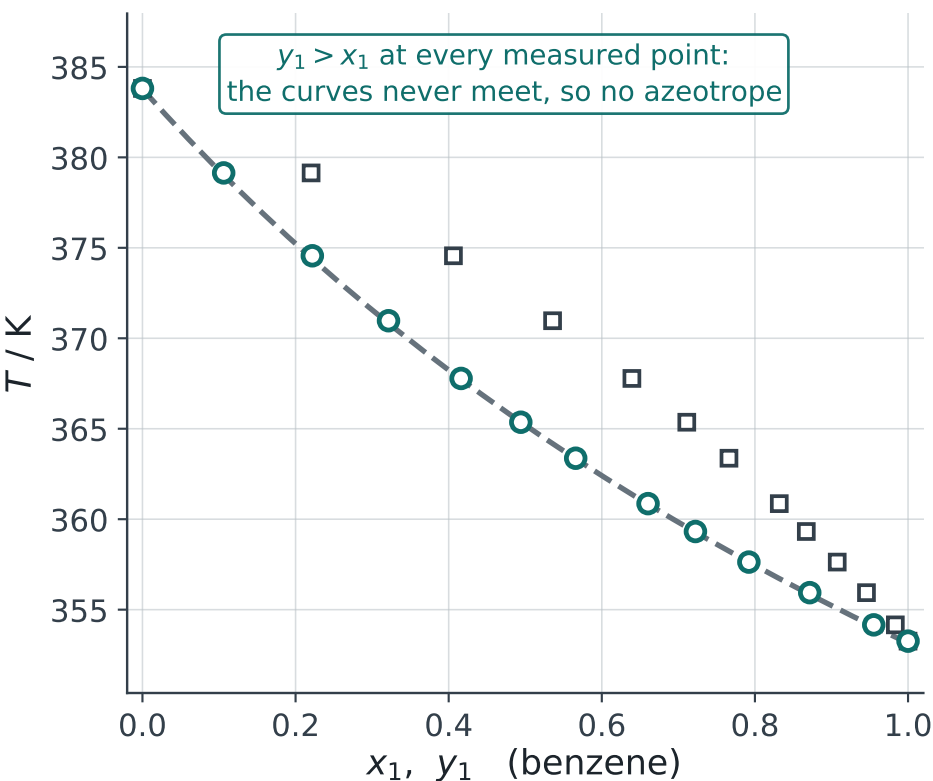


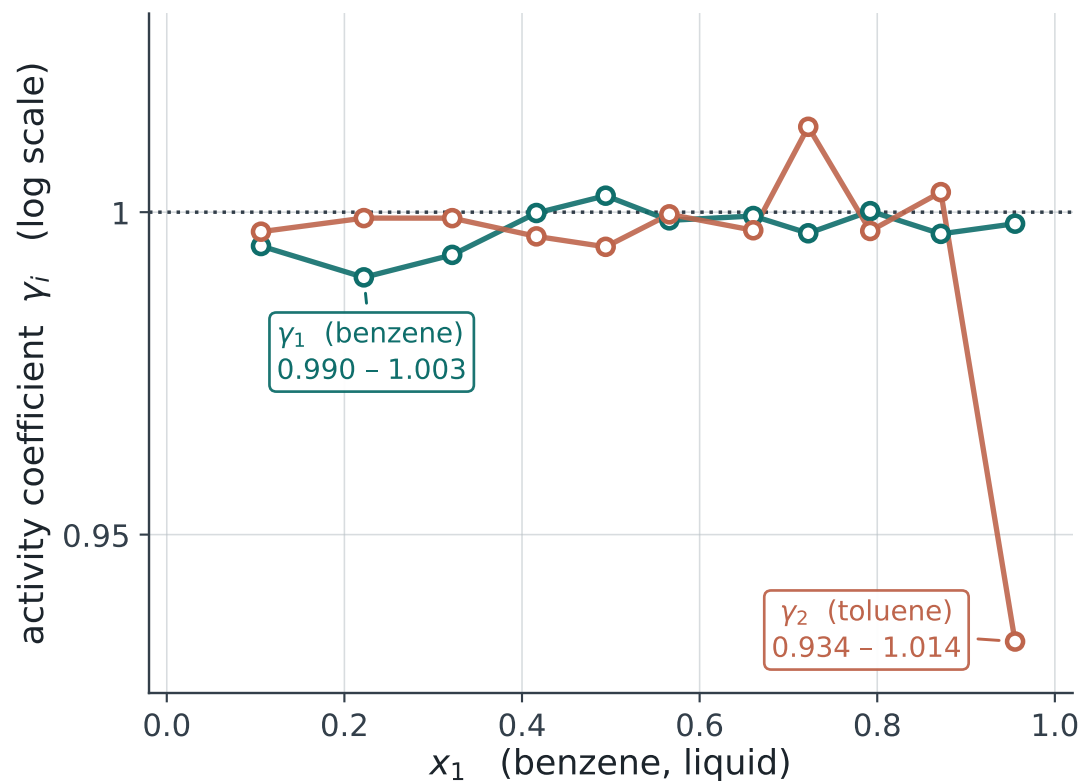
Type 1 — ideal solution — $\gamma_i \approx 1$, no azeotrope

-- Raoult's law ($\gamma_i = 1$) ○ measured, bubble (x_1) □ measured, dew (y_1) ○ γ_1 benzene ○ γ_2 toluene

(a) T - x - y , isobaric, $P = 101.33$ kPa



(b) γ_1 and γ_2 from the same measurements



benzene (1) + toluene (2) · 13 points, isobaric, $P = 101.33$ kPa · doi:10.1016/j.fluid.2013.12.002

$\gamma_i = y_i P / (x_i P_i^{\text{sat}})$: modified Raoult, ideal vapour, Antoine P_i^{sat} . Nothing here is fitted.