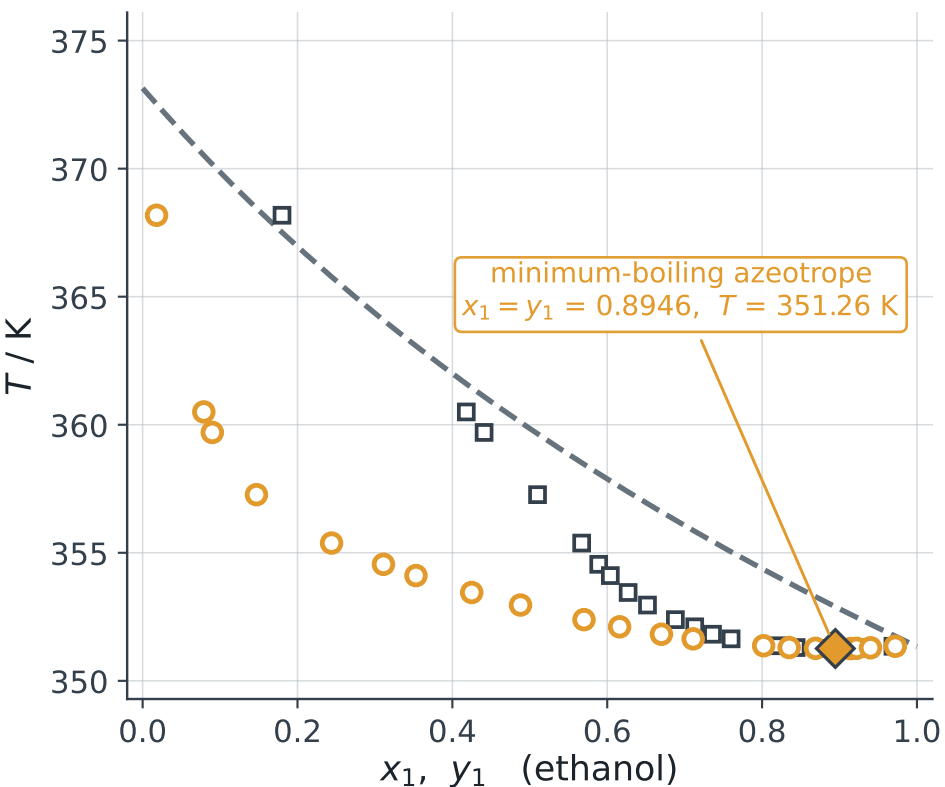


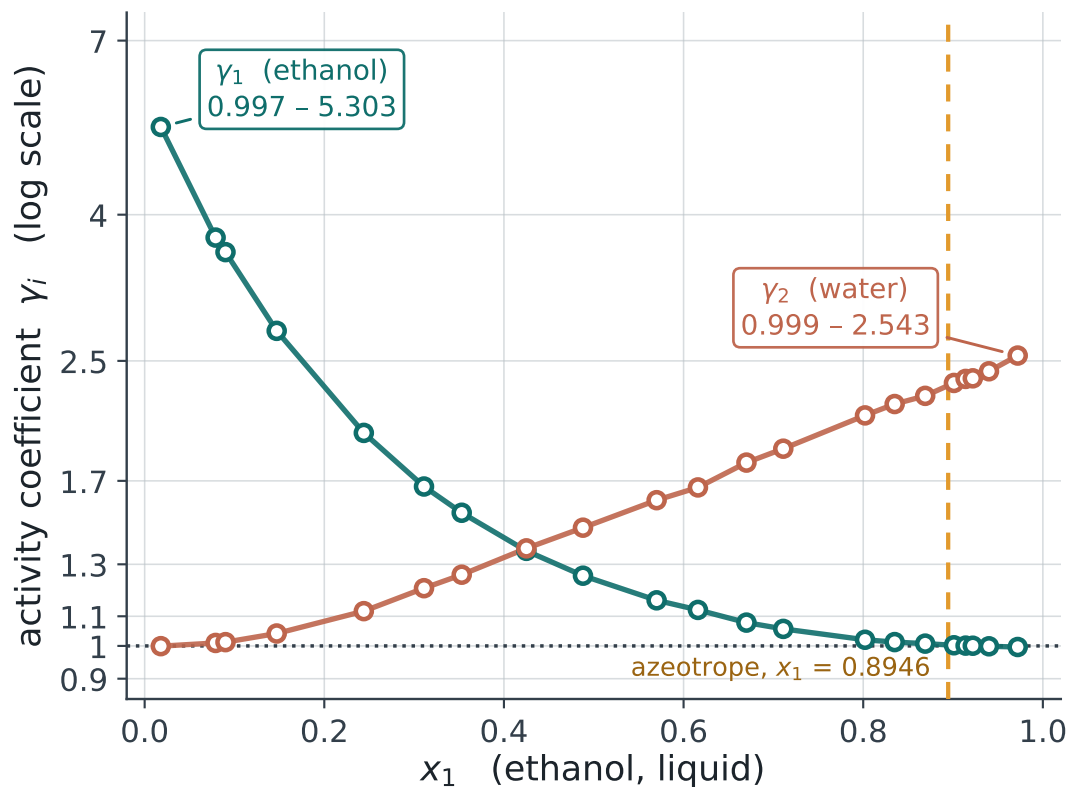
Type 2 — positive deviation — minimum-boiling azeotrope

-- Raoult's law ($\gamma_i = 1$)
 ○ measured, bubble (x_1)
 ◻ measured, dew (y_1)
 ● γ_1 ethanol
 ○ γ_2 water

(a) T - x - y , isobaric, $P = 101.3$ kPa



(b) γ_1 and γ_2 from the same measurements



ethanol (1) + water (2) · 21 points, isobaric, $P = 101.3$ kPa · doi:10.1021/je2008704

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