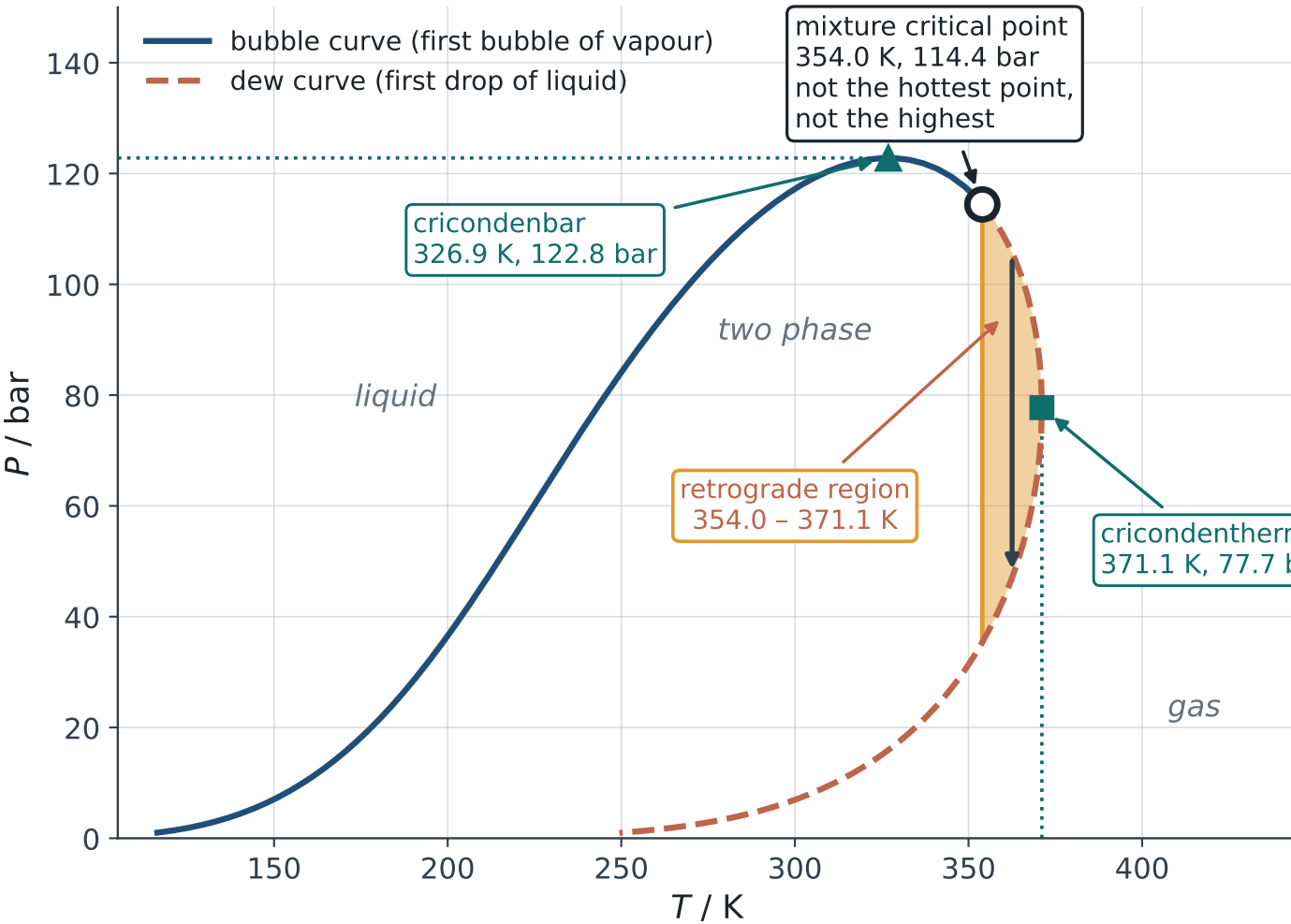
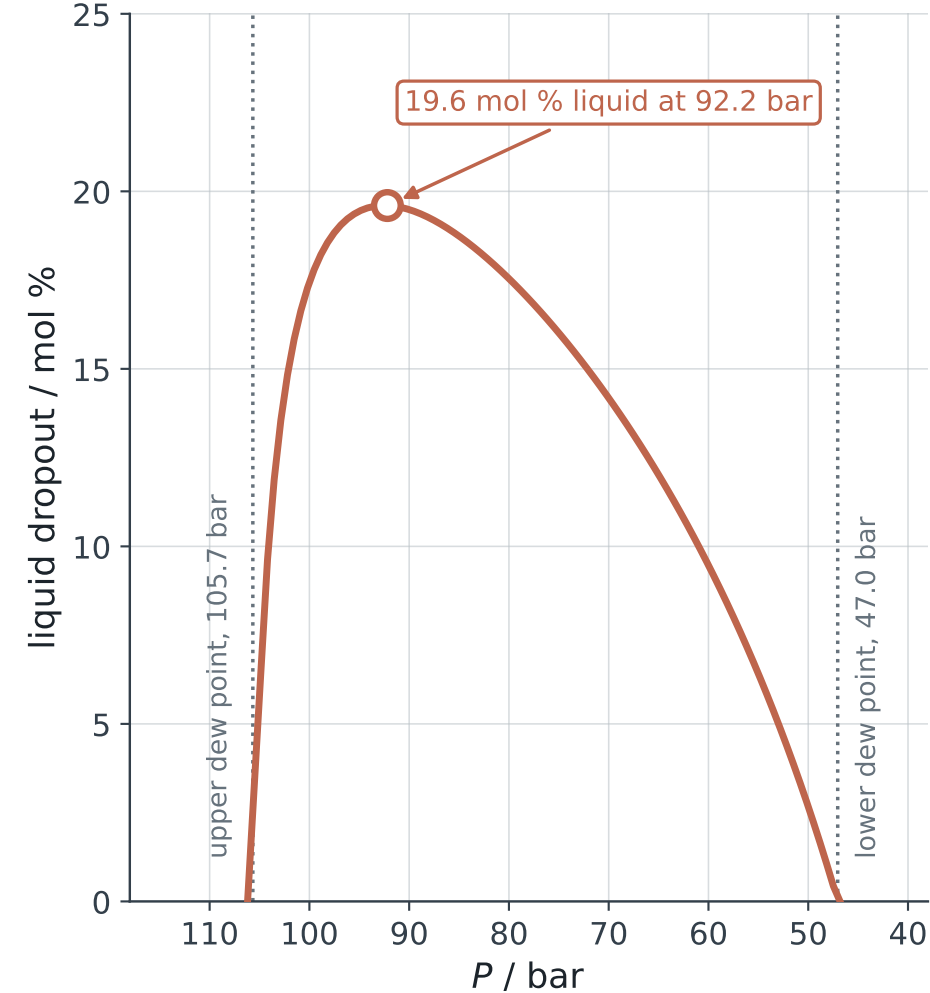


P-T envelope, 0.60 methane / 0.40 n-butane (mole)



Isothermal expansion at $T = 362.6$ K:
the gas condenses, then boils dry again



Peng-Robinson (1976 α), van der Waals one-fluid quadratic mixing rule. $k_{12} = 0$ — ASSUMED, not fitted: no binary VLE data were regressed for this figure. Setting $k_{12} = 0.0133$ instead raises the critical pressure by 1.7% and lowers the critical temperature by 0.44 K (computed here). T_c , P_c , ω from Poling, Prausnitz & O'Connell. Antoine coefficients checked against the normal boiling point. Envelope by Michelsen continuation; dropout from isothermal flash. Every number shown was computed by vlekkit.cubic; none is transcribed.