

Pseudo-Critical Pressure = Ppc

The junction pressure p_{pc} of Vapour Liquid Equilibrium (VLE) area on PT diagram of Fluid Mixture (see Fig. 1).

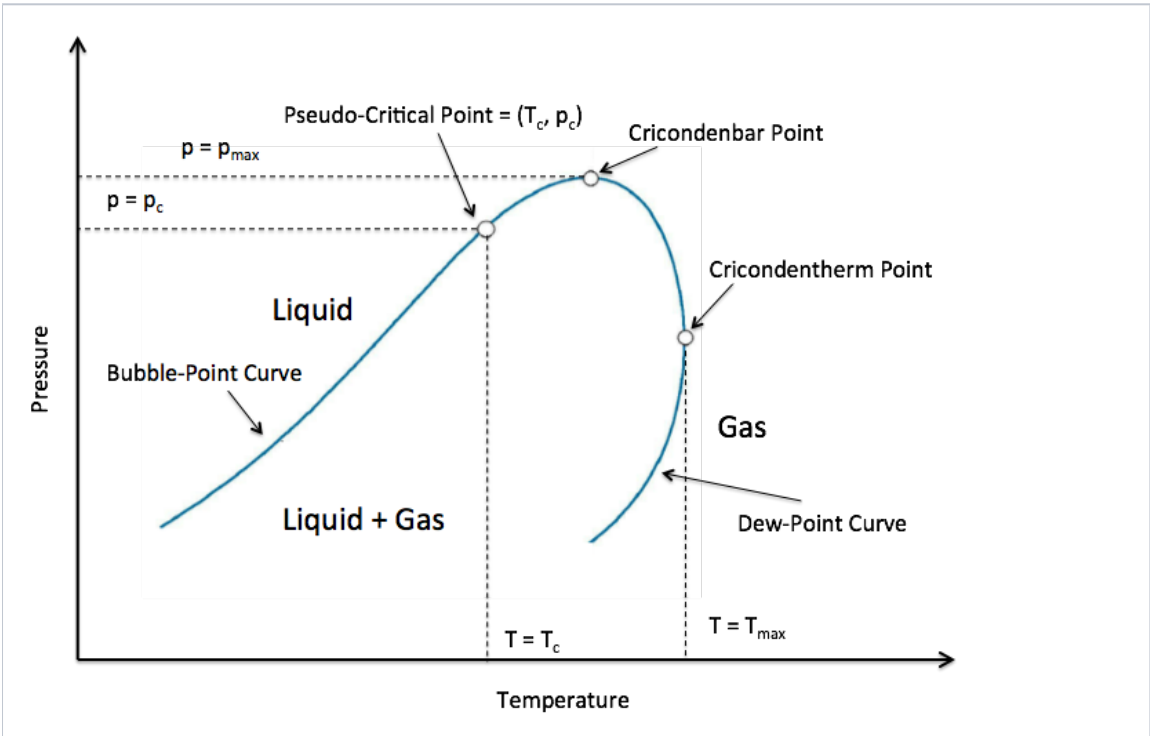


Fig. 1. Schematic PT diagram with Vapour Liquid Equilibrium and Pseudo-Critical Pressure (P_{pc}).

The simplest estimate of Pseudo-Critical Pressure p_{pc} is the mole fraction weighted average:

(1)
$$p_{pc} = \sum_i x_i p_{c,i}$$

where

x_i	mole fraction of the i -th mixture component
$p_{c,i}$	critical pressure of the i -th mixture component

See also

Natural Science / Physics / Thermodynamics / Thermodynamic system / Pseudo-Critical Point (T_{pc} , p_{pc})

[Fluid Mixture] [Pseudo-Critical Temperature (T_{pc})]

[Critical Pressure (p_c)]

