

# Pseudo-Critical Temperature = $T_{pc}$

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

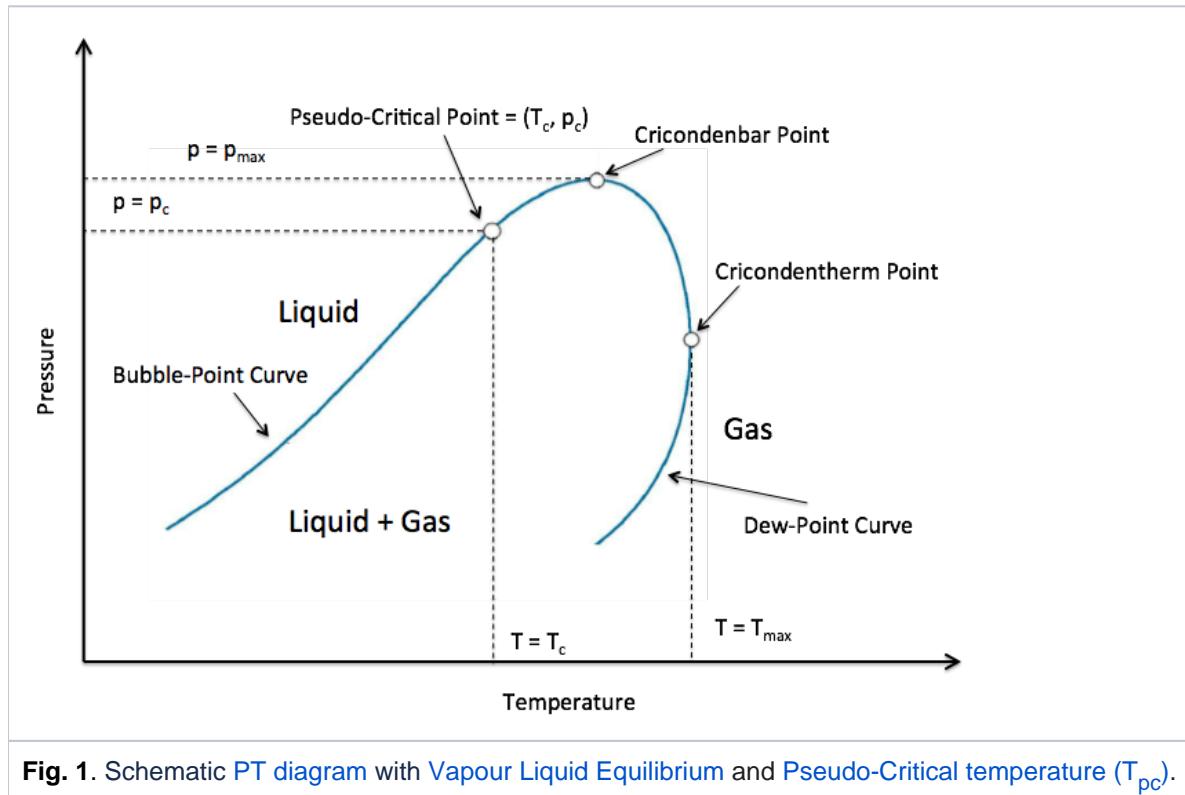


Fig. 1. Schematic PT diagram with Vapour Liquid Equilibrium and Pseudo-Critical temperature ( $T_{pc}$ ).

The simplest estimate of Pseudo-Critical Temperature  $T_{pc}$  is the mole fraction weighted average:

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

where

$x_i$	mole fraction of the $i$ -th mixture component
$T_{c,i}$	critical temperature 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 Pressure ( $P_{pc}$ )]

[ Critical Temperature  $T_c$  ]