

Specific Volume of CHLOROBENZENE at its normal boiling point

Solution:

Fluid name	CHLOROBENZENE			
Fluid index	182			
Tc	359.25 C	Critical temperature (table look up)		
Tc in Kelvin	632.4 K			
Pc	45.2 bar	Critical pressure (table look up)		
P	1.013 bar			
Pr	0.022412			
Acentric Fac.	0.249	Acentric factor (table look up)		
Tr	0.640942			
Tb	405.332 K			
Tb(experimental)	131.75 C	404.9 K	Error	0.1%
R	83.14 cm ³ .bar/(mol.K)			
Z(Liquid)	0.003554			

$$V = Z \cdot R \cdot T / P = Z \cdot G_c \cdot T / P$$

V(Liquid)	118.11 cm ³ /mol
V(Liquid) experimental	115.00 cm ³ /mol
Error	2.7%

Temperature range for Lee-Kesler method		Pressure range for Lee-Kesler method	
Tmin	189.72 K	Pmin	0.452 bar
Tmax	2529.6 K	Pmax	452 bar

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