

Estimate the specific volume of dichlorodifluoromethane vapor  
at 20,67 bar and 366,5 K

Tc	385 K	Critical temperature	Table look up from file:
Pc	41.2 bar	Critical pressure	"Chemical component properties.xls"
Omega	0.176	Acentric factor	Index 212

P 20.67 bar  
T 366.5 K  
R 83.14 cm<sup>3</sup>.bar/(mol.K)

**Solution:**

Tr 0.952  
Pr 0.502  
Z 0.745

V=ZRT/P 1098 cm<sup>3</sup>/mol Lee-Kesler method  
V experimental 1109 cm<sup>3</sup>/mol Registered Version.  
Error -1.0%

Temperature range for Lee-Kesler method		Pressure range for Lee-Kesler method	
Tmin	115.5 K	Pmin	0.412 bar
Tmax	1540 K	Pmax	412 bar

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