

John M. Campbell

GCAP Version 10.2.1 Download and Setup Instructions

- 1. Please <u>click</u> here to download the 30 day trial version of GCAP
- 2. Extract/Unzip the files
- 3. Run GCAP.exe

a. If a window "Windows Protected your PC" appears: click More Info, then Run Anyway.

Run the following test to ensure software is working correctly:

- 1. Click Vol. 1 on toolbar.
- 2. Select Chapter 5.
- 3. Select option A. Bubble point, dew point and flash calculations (SRK EOS).
- 4. Select 5. for Flash at known P and T.
- 5. Enter Specified Temperature, Specified Pressure, and component Mole % C1 through C6 as follows:
 - a. Specified Temperature = -20 C
 - b. Specified Pressure = 4000 kPa (Use -5 F and 600 psia if you have an FPS set of units)
 - c. CH4 = 85, C2H6 = 5, C3H8 = 3, i-C4H10 = 2, n-C4H10 = 1, i-C5H12 = 1, n-C5H12 = 1, nC6H14 = 2
- 6. Click "Run". If you don't get an error message the software is running OK.
- 7. The Estimated Liquid Fraction (L/F) should show 0.1213.

elcome to G	CAP						
.0	hapter 5 Options						
					1	-	
hapter5A. Bu	ibble point, dew poi	nt, and flash calculations(SRK EC)	2		Components	Formula	Mole %
					Nitrogen	NZ	0.0000
Dun	Start Chipr	Drint Christel Shart			Carbon Dioxide	CO2	0.000
TVUT	Start Over	Frint Spread Soleer			Hydrogen Sulfide	H25	0.0000
T					Methane	CH4	85.0000
		-			Ethane	C2H6	5.0000
Select Composition7 Normalize Mole %					Propane	C3H8	3.0000
	1				i-Butane	i-C4H10	2.0000
Feed					n-Butane	n-C4H10	1.0000
					i-Pentane	i-C5H12	1.0000
					n-Pentane	n-C5H12	1.0000
Type of Calculations (SRK EQS)					n-Hexane	n-C6H14	2.0000
1. Bubbl	epoint at known P		n-Heptane	n-C7H16	0.0000		
3. Dewp	oint at known P		n-Octane	n-C8H18	0.0000		
A. Dewp	oint at known T	n-Nonane	n-C9H20	0.0000			
5. Flash	at known P and T, (3 stages of separation may be cal	culated)		n-Decane	n-C10H22	0.0000
7 Flash	at specified P and L at specified T and L	τ- Έ			-		
	and the state of the state of				Total mole%		100.0000
					Flow Rate in kmol/h	-	0.0000
		Specified Temperature ?	-20.0000	C *			
			and the second second			-	
		Specified Pressure 7	4,000.0000	kPa ··			

- 8. Test the graphics by:
 - a. Select Vol. 1, Chapter 4, Option A Multicomponent Phase Envelope.
 - b. Respond "Yes" to pop up message to update.
 - c. Click "Run". A graphic figure will appear.

PetroSkills[®] John M. Campbell Troubleshooting

1. Ensure the date and time are correct on your computer.

b.

- 2. Maximize the program window if some fields are missing.
- Set your Windows "Region Settings" setting to "English United Kingdom" or "English United States"
 a. Click <u>here</u> for more information about changing regional settings.
- 4. If a window "Windows protected your PC" appears, click <u>More Info</u>, then Run Anyway.
 - a. This will appear the first time you launch the program.

Windows protected your PC	Windows protected your PC
Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk. More info	Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk: App: GCAPDesktop.exe Publisher: Unknown publisher
Don't run	Run anyway Don't run