

PetroSkills®

John M. Campbell

GCAP Version 10.2.1

Download and Setup Instructions

1. Please [click](#) 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, n-C₆H₁₄ = 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**.

Components	Formula	Mole %
Nitrogen	N2	0.0000
Carbon Dioxide	CO2	0.0000
Hydrogen Sulfide	H2S	0.0000
Methane	CH4	85.0000
Ethane	C2H6	5.0000
Propane	C3H8	3.0000
i-Butane	i-C4H10	2.0000
n-Butane	n-C4H10	1.0000
i-Pentane	i-C5H12	1.0000
n-Pentane	n-C5H12	1.0000
n-Hexane	n-C6H14	2.0000
n-Heptane	n-C7H16	0.0000
n-Octane	n-C8H18	0.0000
n-Nonane	n-C9H20	0.0000
n-Decane	n-C10H22	0.0000
Total mole%		100.0000
Flow Rate in kmol/h		0.0000

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.
2. Maximize the program window if some fields are missing.
3. Set your Windows “Region Settings” setting to “English United Kingdom” or “English United States”
 - a. Click [here](#) for more information about changing regional settings.
4. If a window “Windows protected your PC” appears, click **More Info**, then **Run Anyway**.
 - a. This will appear the first time you launch the program.

