

PLC-CALC

Gas mixture Software

Gas mixtures calculation by PLC Process

Menu

30/01/2017 14:46

plc.process@plcprocess.com Tel : 0033 5 65 63 83 50

15°C Pressure 300.00 bars 15°C Pressure 4351.1 PSI

Calculate

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T1 = 15°C / 59°F T2 = 50.00°C T2 = 122.0°F

Gas	Percentage	Pressure at T1		Pressure at T2	
		bars	PSI	bars	PSI
Gas 1	CO2 20.00	44.97	652.30	56.65	821.62
Gas 2	Argon 80.00	300.00	4351.06	380.49	5518.58
Gas 3	None 0.00	0.00	0.00	0.00	0.00
Gas 4	None 0.00	0.00	0.00	0.00	0.00
Gas 5	None 0.00	0.00	0.00	0.00	0.00
Gas 6	None 0.00	0.00	0.00	0.00	0.00

500 Euros EXW

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Gas 2	Argon 80.00	300.00	4351.06	380.49	5518.58
Gas 3	None 0.00	0.00	0.00	0.00	0.00
Gas 4	N2 0.00	0.00	0.00	0.00	0.00
Gas 5	CO2 0.00	0.00	0.00	0.00	0.00
Gas 6	H2 0.00	0.00	0.00	0.00	0.00

Functions :

PLC-Calc is a software developed by PLC Process that permit to calculate the partial end pressure for each component of gas to do a mixture. The calculation is based on BWR calculation equation.

This software permit to have a good indication of end pressure in accordance with the temperature of the gas.

Values of inputs :

- Percentage of each component (sum of them need to be 100)
- Selection of the components (choice in 6 gases : N2, Ar, O2, He, CO2, H2)
- Choice of end pressure for 15°C in bar or PSI (between 10b and 600b)
- Choice of the second temperature target in °C or °F (between -50°C and 100°C)

Results calculated :

Values of end pressure for each component at the 2 temperatures (15°C and second value free from -50°C to +100°C)

The calculation is made after few seconds of calculation (depend of the PC performances)

The results are calculated with gases (not on liquid phase).

Calculation is only for indication and no responsibility by PLC Process for results
Licence for one PC and can't be transferred to another PC.

All prices are without taxes