

LNG & Natural Gas Calculator

Input the mole % analysis to get:

Calorific values, Methane number, Liquid and Gaseous density & compression factor.

According to standards: [ISO 6976/95](#), [prEN16726](#), [ISO 12213](#) & [ISO 6578/91](#)



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Methane	<input type="text" value="98.384"/>
Ethane	<input type="text" value="0.5423"/>
Propane	<input type="text" value="0.0184"/>
nButane	<input type="text" value="0.001"/>
iButane	<input type="text" value="0.0027"/>
nPentane	<input type="text" value="0.0008"/>
iPentane	<input type="text" value="0.0013"/>
nHexane	<input type="text" value="0"/>
Nitrogen	<input type="text" value="1.0484"/>
Carbondioxide(CO2)	<input type="text" value="0.0011"/>
Oxygen(O2)	<input type="text" value="0"/>
Sum	100.000

Calculations

Calorific values with [metering](#) temp @ 0, 15 & 25 C.

Gaseous density with combustion temp @ 0, 15 & 25 C.

[Methane number\(Mn\)](#) prEN16726 (Min 2 C+ comp. Calc time 5-60 s)

Liquid density chart -170 to -140 C

Compression factor chart 1 to 300 bar @ 0,10,20,30,40 & 50 C.

[LNG value transfer calculation](#)

Transferred LNG(m3) Liquid temperature(C) Reference conditions

P(vapour) after unload(mbar Absolute) Ave. T(vapour) after unload Ship BOG(kg)

Gaseous State @ P(mBar(Absolute)) Temp (C) Reference conditions

[Log the calculation](#) kWh Therm(UK) MBtu(US)

Your login is valid until: 2020-06-27 [log out](#)

Check this box if you want the Methane Number calculated. You need at least 2 C components

Check this box if you want the liquid density chart.

Check this box if you want the compression factor chart.

Press here to start the calculation.

Select SI, Imperial or USC energy definitions

Check this box if you want to save the parameters of the calculation. By clicking on the link you go to the page where these are shown.

Check this box if you want to get gas properties at non standard states.

Enter analysis as percent or fraction. Both "." And "," is tolerated as a decimal separator.

Automatic sum of analysis

Check this box if you want to use the fields for value transfer calculation.

Data fields for value transfer calculation.