

STEP BY STEP GUIDE

How to Use the SHAW Online Dew Point Calculator

1 Select your required gas type from the drop down menu.

Choose from: Air, Nitrogen, Argon, Helium, Sulphur Hexafluoride, Oxygen, Hydrogen, Carbon Dioxide, Natural Gas or Other. If you select *Other* please input the molecular weight of your gas.

2 In the section *Dewpoint Observed*, select your measurement unit, the one in which you observed your dew point. Choose from °C or °F dew point or one of the four absolute values: ppm(V), ppm(w), g/m³ or lb/MMSCF.

Please ensure you select the appropriate value before selecting *Calculate*.

3 For this example we are using -40 °C and will enter our reading in the *Dew point at Atmospheric Pressure* box, selecting °C from the adjacent dropdown list.

4 Select the gauge pressure units for the *Dewpoint at Line Pressure* value.

5 Select a measurement unit from the *Line Pressure* dropdown list and enter a value. For this example we used 10 bar(A).

PLEASE NOTE: 'Line Pressure' and 'Gas Type' are only required as inputs if the 'dew point at line pressure' or 'ppm(w)' are to be used/calculated.

6 Click *Calculate*

The result of -40 °C dew point at 10 bar(A) = 17.7 °C

Converted values are displayed in the following engineering units: ppm(V), ppm(w), g/m³ and lb/MMSCF.

Dewpoint Observed	
Dewpoint at Atmospheric Pressure:	-40
Dewpoint at Line Pressure:	-17.7
Line pressure:	10 bar
Absolute Values	
Parts per million by volume:	127 ppm(V)
Parts per million by weight:	79 ppm(W)
Absolute humidity:	6.1 g/m ³
	0.1 lb/MMSCF

We also supply a handy, portable pressure dew point calculator with every dew point meter and hygrometer. Especially practical when you are onsite taking spot check readings and your dew point reading requires conversion to an alternate measurable value. To find out how to use this pressure dew point calculator, follow our [step-by-step guide](#) or watch the [video tutorial](#).

PLEASE NOTE: Whilst every effort has been made by Shaw Moisture Meters to ensure that the calculations derived by the dew point calculator are correct, it assumes no responsibility for any errors. In no event shall Shaw Moisture Meters be liable for any damages whatsoever, arising from or relating to information contained in this tutorial.

For technical help please contact: Shaw Moisture Meters +44 (0) 1274 733582