Answer on Question #72448, Chemistry / General Chemistry

At what temperature is the temperature in degrees farenheit equal to twice the temperature in degrees celsius?

Solution

The formula of conversion degrees Farenheit into degrees Celsius is:

 T_F = 1.8 T_C + 32, where T_F – temperature in degrees farenheit; T_C – temperature in degrees celsius

 $T_F = 2 T_C - as given in the task$

$$2T_C = 1.8 T_C + 32$$

$$0.2 T_C = 32$$

$$T_{C} = 160$$

$$T_F = 2 T_C$$

$$T_F = 320$$

Answer

160°C = 320°F.