$$CH_4 = \left[V_G \times MF_{CH4} \times \left(1 - eff_f\right)\right] \times \left[\frac{T_{SC} \times P_f}{T_f \times P_{SC}}\right] \times \rho_{CH4} \times 0.001$$

Where:

CH_4 = Annual CH_4 emissions attributable to flaring, in metric tons;
V_G = Annual volume of gas flared, determined in accordance with QC.33.4.13, in cubic metres;
MF_{CH4} = Mole fraction of CH_4 in the gas flared, determined in accordance with paragraph 3 of QC.33.4;
eff_f = Flare combustion efficiency determined by the manufacturer, or a default value of 0.98;
T_{SC} = Temperature at standard conditions of 293.15 kelvin;
T_f = Flare combustion temperature, in kelvin;
P_f = Flare combustion pressure, in kilopascals;
P_{SC} = Pressure at standard conditions of 101.325 kPa;
ρ_{CH4} = Density of CH_4 that is 0.668 kg per cubic metre at standard conditions;
0.001 = Conversion factor, kilograms to metric tons;