$$CH_{4} = \left[V_{G} \times MF_{CH4} \times \left(1 - eff_{f}\right)\right] \times \left[\frac{T_{SC} \times P_{f}}{T_{f} \times P_{SC}}\right] \times \rho_{CH4} \times 0.001$$

Where:

$$\begin{split} CH_4 &= \text{Annual } CH_4 \text{ emissions attributable to flaring, in metric tons;} \\ V_G &= \text{Annual volume of gas flared, determined in accordance with QC.33.4.13, in cubic metres;} \\ MF_{CH4} &= \text{Mole fraction of } CH_4 \text{ in the gas flared, determined in accordance with paragraph 3 of QC.33.4;} \\ eff_f &= \text{Flare combustion efficiency determined by the manufacturer, or a default value of 0.98;} \\ T_{SC} &= \text{Temperature at standard conditions of 293.15 kelvin;} \\ T_f &= \text{Flare combustion temperature, in kelvin;} \\ P_f &= \text{Flare combustion pressure, in kilopascals;} \end{split}$$

 P_{SC} = Pressure at standard conditions of 101.325 kPa;

 ρ_{CH4} = Density of CH₄, namely 0.690 kg per cubic metre, at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;