$$GHG_i = \sum_{j=1}^{n} \left[N_j \times EF_j \times t_j \right] \times C_i \times \rho_i \times 0.001$$

Where:

GHG_i = Annual greenhouse gas *i*, for each source of fugitive emissions, in metric tons;
n = Total number of component types, for each source of fugitive emissions;
j = Component type;
N_j = Total number of components of type *j* determined in accordance with QC.29.4.8;
EF_j = Emission factor for component type *j*, determined in accordance with QC.29.4.8, in cubic metres per hour at standard conditions;
t_j = Time during which component type *j*, associated with fugitive emissions, was operational, in hours;
C_i = Concentration in natural gas of greenhouse gas *i*,
- determined in accordance with paragraph 4 of QC.29.4.8;
- for natural gas compression for onshore transmission, underground storage of natural gas, natural gas transmission pipelines and natural gas distribution: of 0.011 for CO_2 and 0.975 for CH_4;
- for storage of liquefied natural gas and imports and exports of LNG: of 0 for CO_2 and 1 for CH_4;
- for natural gas distribution: of 0.011 for CO_2 and 1 for CH_4;

r_i = Density of greenhouse gas *i*, of 1.893 kg per cubic metre for CO_2 and 0.690 kg per cubic metre for CH_4 at standard conditions;
0.001 = Conversion factor, kilograms to metric tons;
i = CO_2 or CH_4;