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

Where:

$GHG_i$ = Annual emissions of greenhouse gas *i*, for each source of fugitive emissions, in metric tons;
n = Total number of types of components, by fugitive emission source;
j = Type of component;
$N_j$ = Total number of components of type *j*;
$EF_j$ = Emission factor for leaks from each type of component *j*, determined in accordance with paragraph 1 of QC.33.4.16, in cubic metres per hour at standard conditions;
$t_j$ = Duration of leakage from component *j*, determined in accordance with paragraph 2 of QC.33.4.16, in hours;
$MF_i$ = Molar fraction of greenhouse gas *i* in the gas from reciprocating compressor venting, determined in accordance with paragraph 3 of QC.33.4;
$\rho_i$ = Density of greenhouse gas *i* that is 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 $CH_4$.