

$$GHG_i = N \times EF_i \times \rho_i \times 0.001$$

Where:

$GHG_i$  = Annual emissions of greenhouse gas  $i$  attributable to atmospheric centrifugal compressor vents, in metric tons;

$N$  = Total number of centrifugal compressors;

$EF_j$  = Emission factor, namely 15,234.5 m<sup>3</sup> for CO<sub>2</sub> and 345,465.5 m<sup>3</sup> for CH<sub>4</sub>, at standard conditions;

$\rho_i$  = Density of greenhouse gas  $i$  that is 1.830 kg per cubic metre for CO<sub>2</sub> and 0.668 kg per cubic metre for CH<sub>4</sub> at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

$i$  = CO<sub>2</sub> or CH<sub>4</sub>;