

$$\begin{aligned}
 C_N &= \frac{C'_N A_N}{C'_N A_N + C'_{Si} A_{Si}} \times 100 \\
 &= \frac{(2.6 \times 10^{-5} \text{ at\%})(14.01 \text{ g/mol})}{(2.6 \times 10^{-5} \text{ at\%})(14.01 \text{ g/mol}) + (99.999974 \text{ at\%})(28.09 \text{ g/mol})} \times 100 \\
 &= 1.3 \times 10^{-5} \text{ wt\%}
 \end{aligned}$$

Similar calculations may be carried out for the other possible donor impurities which yield

$$C_P = 2.87 \times 10^{-5} \text{ wt\%}$$

$$C_{As} = 6.93 \times 10^{-5} \text{ wt\%}$$

$$C_{Sb} = 1.127 \times 10^{-4} \text{ wt\%}$$