

$$P_{analyte}[\%] = \frac{(I_{analyte} * N_{standard} * MW_{analyte} * m_{standard})}{(I_{standard} * N_{analyte} * MW_{standard} * m_{sample})} * P_{standard}$$

- $P_{analyte}$ = Purity of analyte
- $I_{analyte}$ = Integration of analyte
- $N_{standard}$ = Number of protons of the standard signal
- $MW_{analyte}$ = Molecular weight of the analyte (g/mol)
- $m_{standard}$ = mass of the standard (mg)
- $I_{standard}$ = Integration of the standard signal
- $N_{analyte}$ = Number of protons of the analyte signal
- $MW_{standard}$ = Molecular weight of the standard (g/mol)
- $M_{analyte}$ = mass of the analyte (mg)
- $P_{standard}$ = Purity of the standard

$$P_{analyte}[\%] = \frac{(1.00 * 9 * 203.289 * 14.8)}{(10.73 * 1 * 168.19 * 15.1)} * 0.99 = 0.9837 \Rightarrow 98\%$$

