

$$x_{\text{NOact}} = \left(1 - \frac{2.98}{6.1}\right) \cdot 3001.6 = 1535.24459 \text{ } \mu\text{mol/mol}$$

$$\text{quench} = \left( \left( \frac{\frac{1739.6}{1 - 0.030}}{1800.0} - 1 \right) \cdot \frac{0.030}{0.030} + \left( \frac{1515.2}{1535.24459} - 1 \right) \cdot \frac{3.2}{2.98} \right) \cdot 100 \%$$