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

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