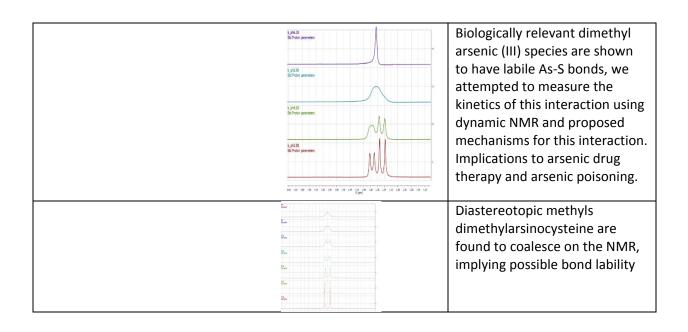
## Facile dimethylarsenic exchange and pyramidal inversion in its cysteine and glutathione adducts.

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## **Supplementary Material.**



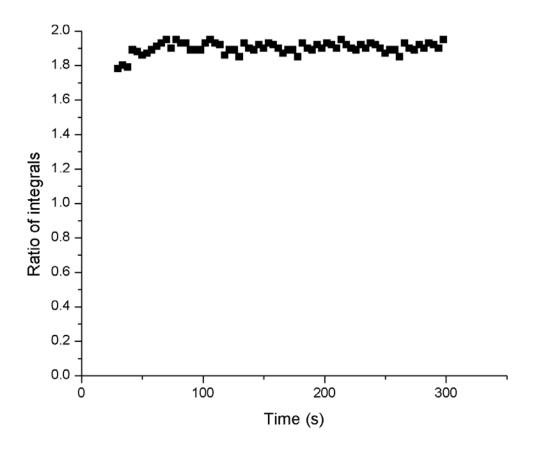


Fig1. Ratio of methyl peaks for  $\bf 1$  and  $\bf 2$  after an addition of 200 ml of 10mM solution of GSH to a 400 ul solution of  $\bf 2$  at pD= 4.6, 22 °C

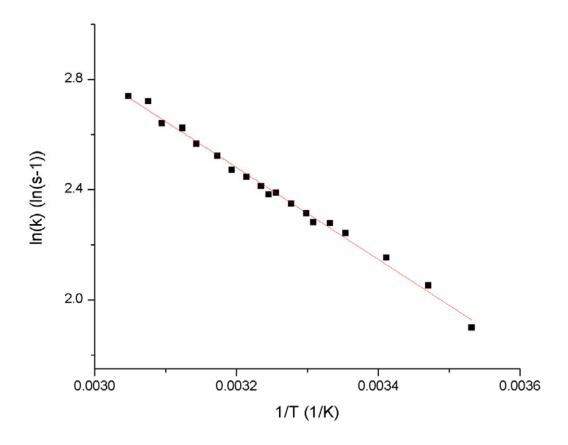


Fig. 2 Arrhenius plot of the natural log of the rate constant (ln (k)) against 1 / Temperature (1/K) with the linear fit (y = -1666 x + 7.8) The derived parameters are  $\Delta G^{\ddagger}$  = 73 kJmol<sup>-1</sup>,  $\Delta H^{\ddagger}$  = 11 kJmol<sup>-1</sup> and  $\Delta S^{\ddagger}$  = -190 Jmol<sup>-1</sup>K<sup>-1</sup>.

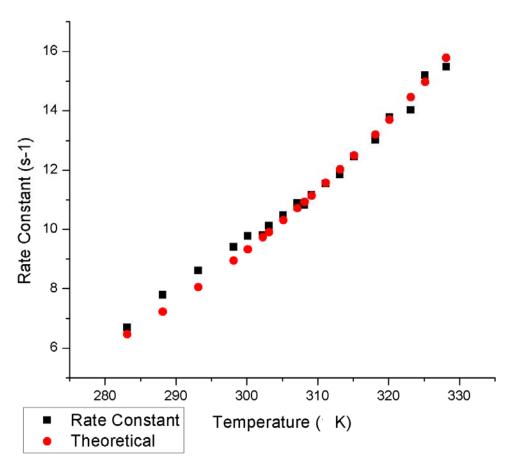


Fig 3. Chart showing the experimental and the data fitted (Eyring equation) rate constant against temperature with  $\Delta G^{\ddagger} = 73 \text{ kJmol}^{-1}$ ,  $\Delta H^{\ddagger} = 11 \text{ kJmol}^{-1}$  and  $\Delta S^{\ddagger} = -190 \text{ Jmol}^{-1} \text{K}^{-1}$ .