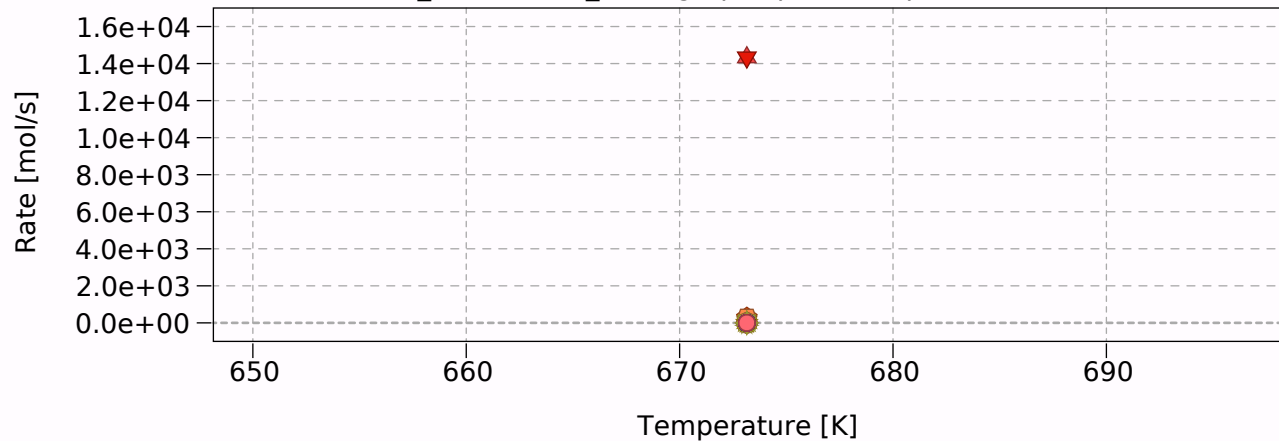


SEQUENCERUN\_2025-02-27\_1203/graphs/pdf/rates.pdf



▲ CO <sub>2</sub> + * -> CO <sub>2</sub> *	▼ CO <sub>2</sub> + * <- CO <sub>2</sub> *
◆ CO + * -> CO*	■ CO + * <- CO*
⬢ H <sub>2</sub> + 2 * -> 2 H*	⬢ H <sub>2</sub> + 2 * <- 2 H*
⬢ H <sub>2</sub> O + * -> H <sub>2</sub> O*	⬢ H <sub>2</sub> O + * <- H <sub>2</sub> O*
⬢ CO <sub>2</sub> * + * -> CO* + O*	⬢ CO <sub>2</sub> * + * <- CO* + O*
★ CO <sub>2</sub> * + H* -> HCOO* + *	★ CO <sub>2</sub> * + H* <- HCOO* + *
★ CO <sub>2</sub> * + H* -> COOH* + *	★ CO <sub>2</sub> * + H* <- COOH* + *
★ CO <sub>2</sub> * + OH* -> COOH* + O*	★ CO <sub>2</sub> * + OH* <- COOH* + O*
● CO <sub>2</sub> * + H <sub>2</sub> O* -> COOH* + OH*	● CO <sub>2</sub> * + H <sub>2</sub> O* <- COOH* + OH*
● CO <sub>2</sub> * + OH* -> HCOO* + O*	● CO <sub>2</sub> * + OH* <- HCOO* + O*
● CO <sub>2</sub> * + H <sub>2</sub> O* -> HCOO* + OH*	● CO <sub>2</sub> * + H <sub>2</sub> O* <- HCOO* + OH*
● COOH* + * -> CO* + OH*	● COOH* + * <- CO* + OH*
● COOH* + * -> COH* + O*	● COOH* + * <- COH* + O*
● HCOO* + * -> O* + HCO*	● HCOO* + * <- O* + HCO*
● CO* + * -> C* + O*	● CO* + * <- C* + O*
● HCO* + * -> CO* + H*	● HCO* + * <- CO* + H*
● HCO* + * -> CH* + O*	● HCO* + * <- CH* + O*
● COH* + * -> CO* + H*	● COH* + * <- CO* + H*
● COH* + * -> C* + OH*	● COH* + * <- C* + OH*
● C* + H* -> CH* + *	● C* + H* <- CH* + *
● CH* + H* -> CH <sub>2</sub> * + *	● CH* + H* <- CH <sub>2</sub> * + *
● CH <sub>2</sub> * + H* -> CH <sub>3</sub> * + *	● CH <sub>2</sub> * + H* <- CH <sub>3</sub> * + *
● HCO* + H* -> CH <sub>2</sub> O* + *	● HCO* + H* <- CH <sub>2</sub> O* + *
● HCO* + H* -> HCOH* + *	● HCO* + H* <- HCOH* + *
● COH* + H* -> HCOH* + *	● COH* + H* <- HCOH* + *
● HCOH* + * -> CH* + OH*	● HCOH* + * <- CH* + OH*
● HCOH* + H* -> CH <sub>2</sub> OH* + *	● HCOH* + H* <- CH <sub>2</sub> OH* + *
● CH <sub>2</sub> OH* + * -> CH <sub>2</sub> * + OH*	● CH <sub>2</sub> OH* + * <- CH <sub>2</sub> * + OH*
● CH <sub>2</sub> OH* + H* -> CH <sub>3</sub> OH* + *	● CH <sub>2</sub> OH* + H* <- CH <sub>3</sub> OH* + *
● CH <sub>2</sub> O* + H* -> CH <sub>2</sub> OH* + *	● CH <sub>2</sub> O* + H* <- CH <sub>2</sub> OH* + *
● CH <sub>2</sub> O* + * -> CH <sub>2</sub> * + O*	● CH <sub>2</sub> O* + * <- CH <sub>2</sub> * + O*
● CH <sub>2</sub> O* + H* -> CH <sub>3</sub> O* + *	● CH <sub>2</sub> O* + H* <- CH <sub>3</sub> O* + *
● CH <sub>3</sub> O* + * -> CH <sub>3</sub> * + O*	● CH <sub>3</sub> O* + * <- CH <sub>3</sub> * + O*
● CH <sub>3</sub> O* + H* -> CH <sub>3</sub> OH* + *	● CH <sub>3</sub> O* + H* <- CH <sub>3</sub> OH* + *
● CH <sub>3</sub> OH* + * -> CH <sub>3</sub> * + OH*	● CH <sub>3</sub> OH* + * <- CH <sub>3</sub> * + OH*
● O* + H* -> OH* + *	● O* + H* <- OH* + *
● OH* + H* -> H <sub>2</sub> O* + *	● OH* + H* <- H <sub>2</sub> O* + *
● OH* + OH* -> O* + H <sub>2</sub> O*	● OH* + OH* <- O* + H <sub>2</sub> O*
● CH <sub>4</sub> + 2 * -> CH <sub>3</sub> * + H*	● CH <sub>4</sub> + 2 * <- CH <sub>3</sub> * + H*
● CH <sub>3</sub> OH + * -> CH <sub>3</sub> OH*	● CH <sub>3</sub> OH + * <- CH <sub>3</sub> OH*
● CH <sub>2</sub> O + * -> CH <sub>2</sub> O*	● CH <sub>2</sub> O + * <- CH <sub>2</sub> O*