# 9 reactions matched to 1,3\_Insertion\_CO2

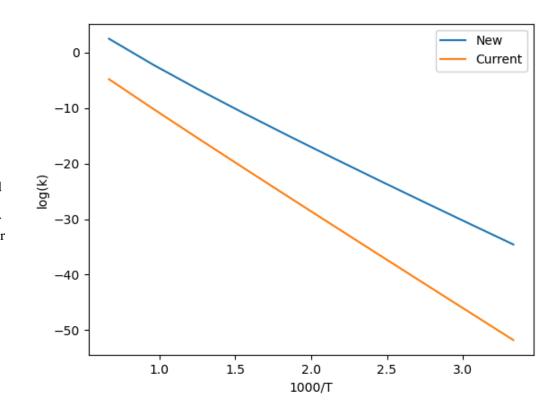
Note: Training reaction written in opposite direction from reaction family.

### **New Kinetics:**

Arrhenius(A=(5.08e-15,'s^-1'), n=7.77, Ea=(54250,'cal/mol'), T0=(1,'K'))

### **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

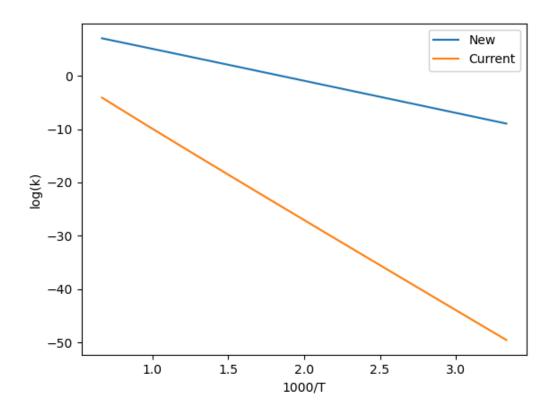


index: 66

 $Arrhenius(A=(7.38e+11, 's^{-1}), n=-0.25, Ea=(27740, 'cal/mol'), T0=(1, 'K'))$ 

## **Current Kinetics**

ArrheniusEP(A=(10.2406,'m^3/(mol\*s)'), n=1.86833, alpha=0, E0= (316.938,'kJ/mol'), comment="""Average of [From training reaction 1 used for CO2\_Cdd;H2 + Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]]] Estimated using an average for rate rule [CO2\_Cdd;R\_H] Euclidian distance = 0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

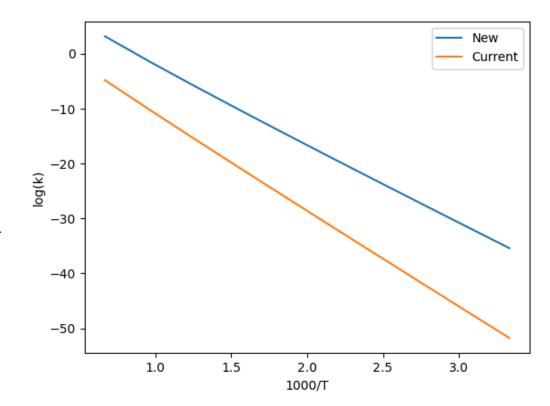


index: 70 
$$H = 0$$
  $F = 0$   $F$ 

Arrhenius(A=(0.0468,'s^-1'), n=4.23, Ea=(61170,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

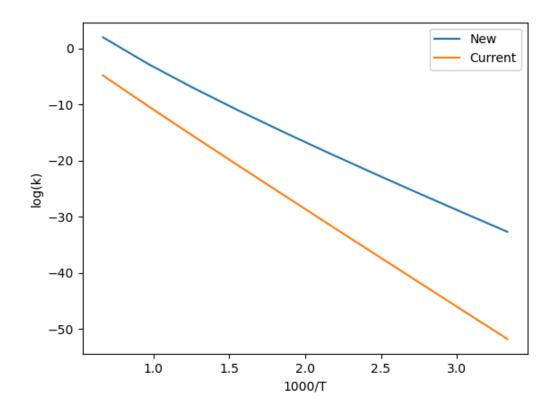


index: 116 
$$H = 0$$
  $C = 0$   $C = 0$ 

Arrhenius(A=(1.67e-25,'s^-1'), n=10.58, Ea=(46810,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

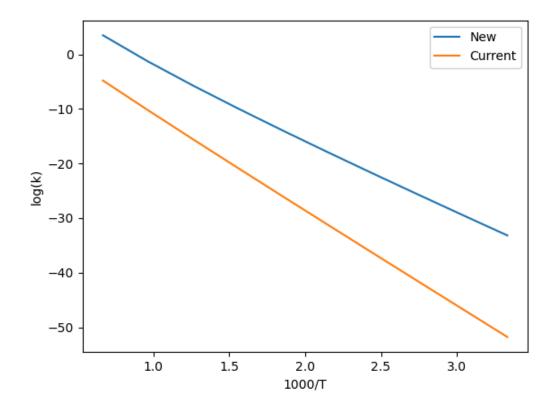
ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")



Arrhenius(A=(5.74e-17,'s^-1'), n=8.62, Ea=(52560,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

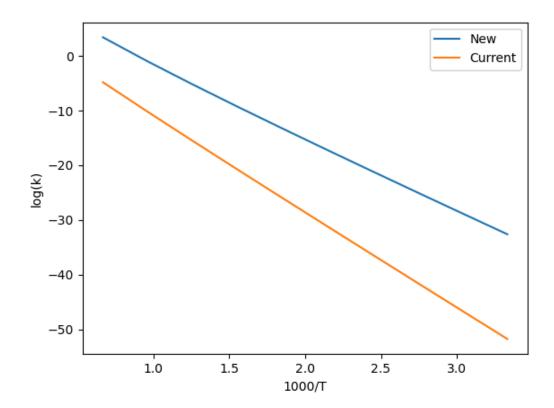
ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")



Arrhenius(A=(9.42e-06,'s^-1'), n=5.21, Ea=(55590,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")



index: 163 
$$H = 0$$
  $F = F = F$   $O = 0$   $O = 0$   $O = 0$ 

Arrhenius(A=(2.52e-16,'s^-1'), n=8.17, Ea=(51890,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

Arrhenius(A=(0.0958,'s^-1'), n=3.87, Ea=(56350,'cal/mol'), T0=(1,'K'))

## **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

Arrhenius(A=(7.25e-14,'s^-1'), n=7.69, Ea=(51640,'cal/mol'), T0=(1,'K'))

# **Current Kinetics**

ArrheniusEP(A=(0.0347248,'m^3/(mol\*s)'), n=2.50667, alpha=0, E0= (324.678,'kJ/mol'), comment="""Average of [From training reaction 2 used for CO2\_Cdd;C\_methane + Average of [From training reaction 3 used for CO2\_Cdd;C\_pri/NonDeC] + Average of [From training reaction 4 used for CO2\_Cdd;C/H2/NonDeC]] Estimated using template [CO2\_Cdd;Cs\_H] for rate rule [CO2\_Cdd;C\_ter] Euclidian distance = 1.0 Multiplied by reaction path degeneracy 2.0 family: 1,3\_Insertion\_CO2""")

