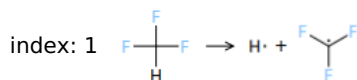


98 reactions matched to R_Recombination



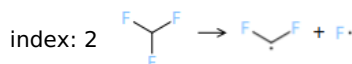
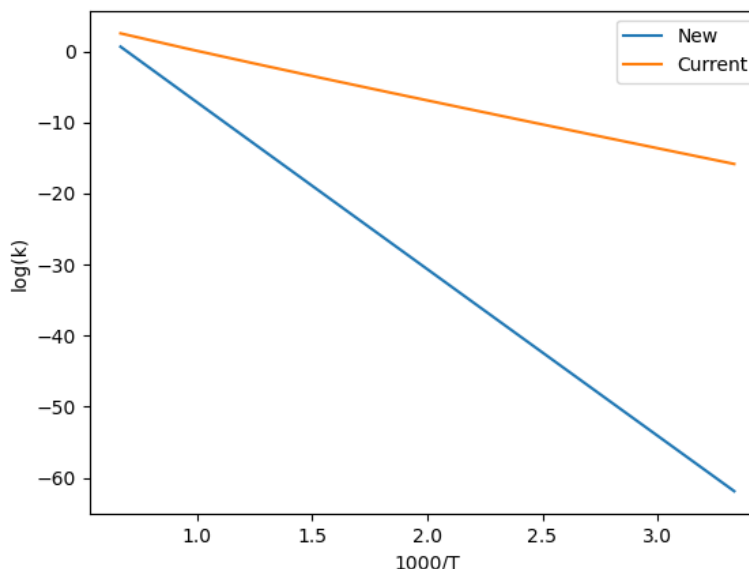
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(1.53e+15, s^{-1})$, $n=0.33$, $E_a=(106892, cal/mol)$, $T_0=(1, K)$)

Current Kinetics

ArrheniusBM($A=(4.1766, m^3/(mol*s))$, $n=1.94174$, $w_0=(205.5, kJ/mol)$, $E_0=(122.15, kJ/mol)$, $T_{min}=(300, K)$, $T_{max}=(2000, K)$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_N-4R!H->C_Ext-2C-R')$, $comment=""$ Estimated from node Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_N-4R!H->C_Ext-2C-R""))



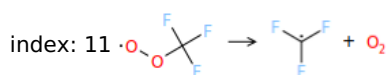
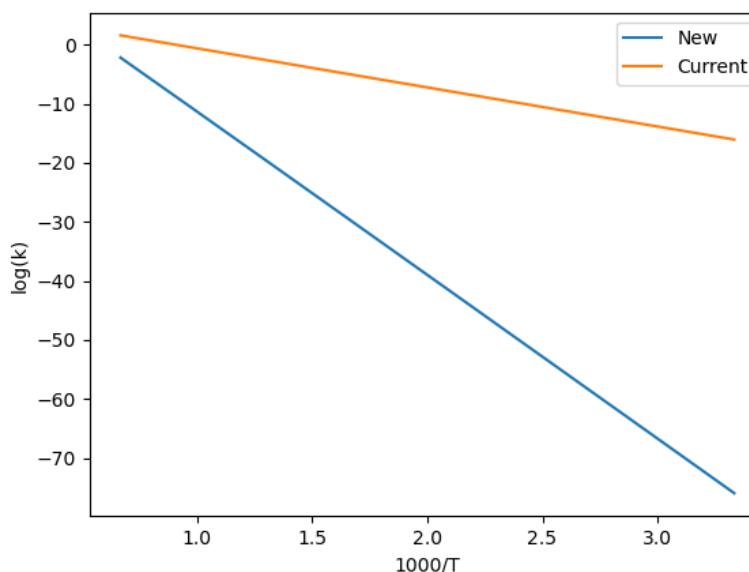
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(2e+18, s^{-1})$, $n=-0.61$, $E_a=(127285, cal/mol)$, $T_0=(1, K)$)

Current Kinetics

ArrheniusBM($A=(1e+06, m^3/(mol*s))$, $n=0$, $w_0=(242.5, kJ/mol)$, $E_0=(126.651, kJ/mol)$, $T_{min}=(300, K)$, $T_{max}=(2000, K)$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C""))



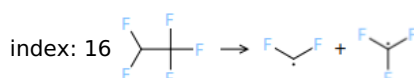
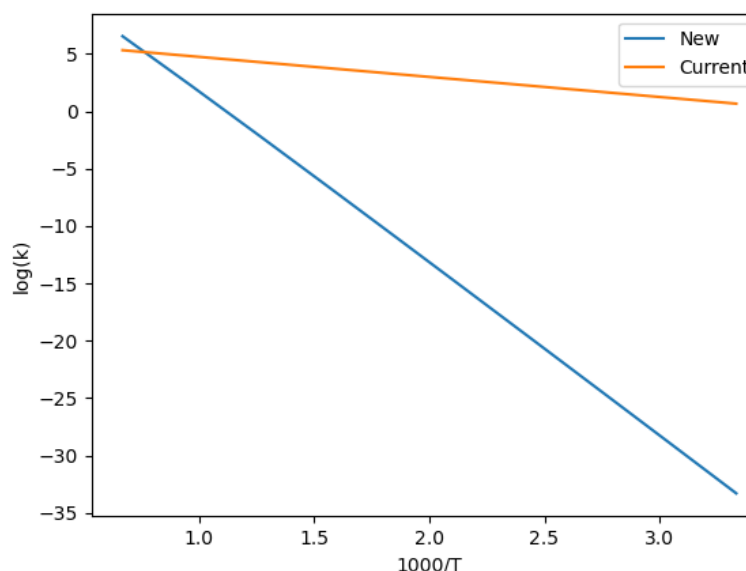
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(2.24e+22, s^{-1})$, $n=-1.75$, $E_a=(70422.2, cal/mol)$, $T_0=(1, K)$)

Current Kinetics

ArrheniusBM(A=(3.01e+06,'m^3/(mol*s)'), n=-1.3397e-08, w0=(179,'kJ/mol'), E0=(33.4345,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Sp-4R!H-2C_Ext-2C-R_N-5R!H->C'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Sp-4R!H-2C_Ext-2C-R_N-5R!H->C Multiplied by reaction path degeneracy 2.0""")



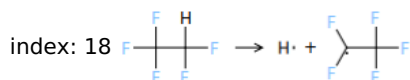
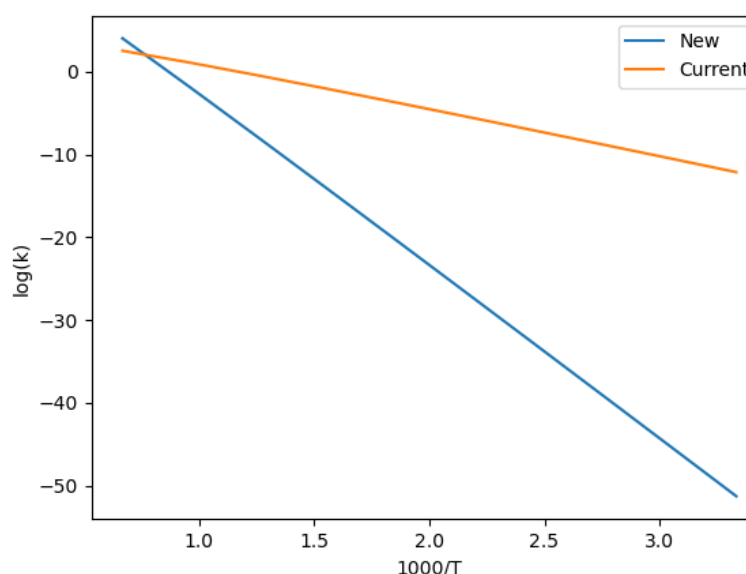
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius(A=(9.12e+24,'s^-1'), n=-2.12, Ea=(97427.8,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.83587e+13,'m^3/(mol*s)'), n=-2.16473, w0=(173,'kJ/mol'), E0=(116.106,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R""")



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

New Kinetics:

Arrhenius(A=(3.05e+14,'s^-1'), n=0.42, Ea=(103655,'cal/mol'), T0=(1,'K'))

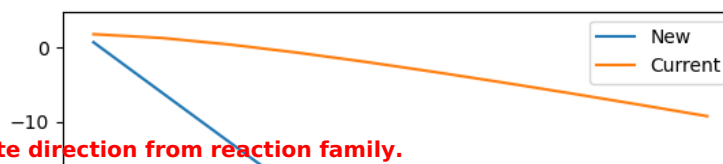
Current Kinetics

ArrheniusBM(A=(1.21692e+34,'m^3/(mol*s)'), n=-8.80473, w0=(205.5,'kJ/mol'), E0=(123.739,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_4R!H->C_Ext-4C-R_N-5R!H->Cl_N-5BrCFINOPSSi->Br_N-5CF->C_Sp-4C-2C_Ext-4C-R_Ext-2C-R_Ext-4C-R'), comment="""Estimated from node Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_4R!H->C_Ext-4C-R_N-5R!H->Cl_N-5BrCFINOPSSi->Br_N-5CF->C_Sp-4C-2C_Ext-4C-R_Ext-2C-R_Ext-4C-R""")

5BrCFINOPSSi->Br_N-5CF->C_Sp-4C-2C_Ext-4C-R_Ext-2C-R_Ext-4C-R""")



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

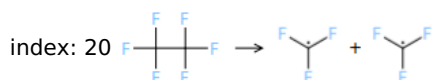
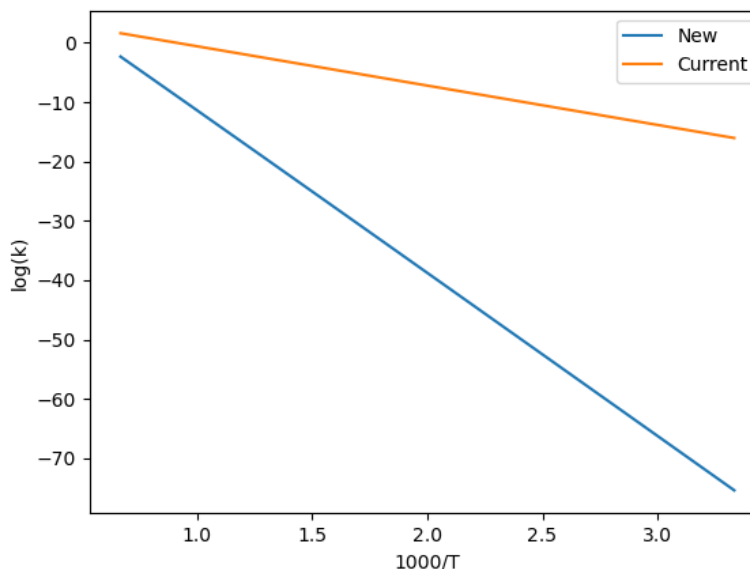


New Kinetics:

Arrhenius($A=(1.91e+18, 's^{-1}')$, $n=-0.71$, $E_a=(126135, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1e+06, 'm^3/(mol*s)')$, $n=0$, $w_0=(242.5, 'kJ/mol')$, $E_0=(126.651, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C""")



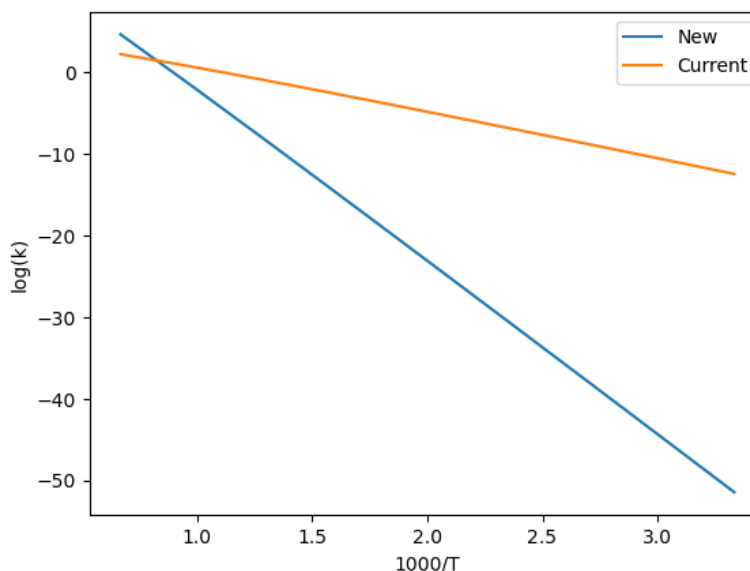
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(3.58e+26, 's^{-1}')$, $n=-2.35$, $E_a=(99025.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1.41794e+13, 'm^3/(mol*s)')$, $n=-2.16473$, $w_0=(173, 'kJ/mol')$, $E_0=(116.106, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R""")



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

New Kinetics:

Arrhenius($A=(1.57e+19, 's^{-1}')$, $n=-0.75$, $E_a=(125645, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1e+06, 'm^3/(mol*s)')$, $n=0$, $w_0=(242.5, 'kJ/mol')$, $E_0=(126.651, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_N-4R!H->O_4BrCCIF->F_Ext-1C-R_N-5R!H->Cl_Ext-2CF-R_N-5BrCFINOPSSi->Br_Ext-1C-R""")

Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C'), comment=""

node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C""")



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

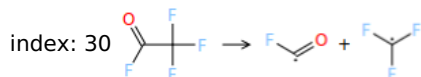
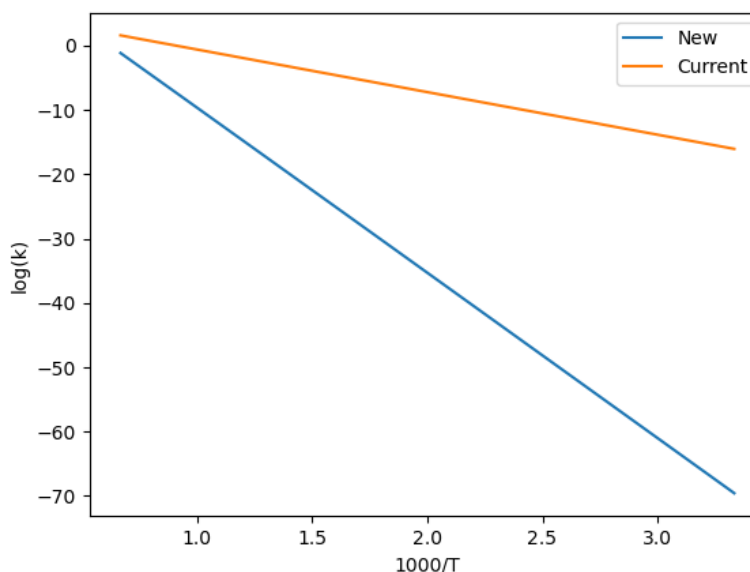


New Kinetics:

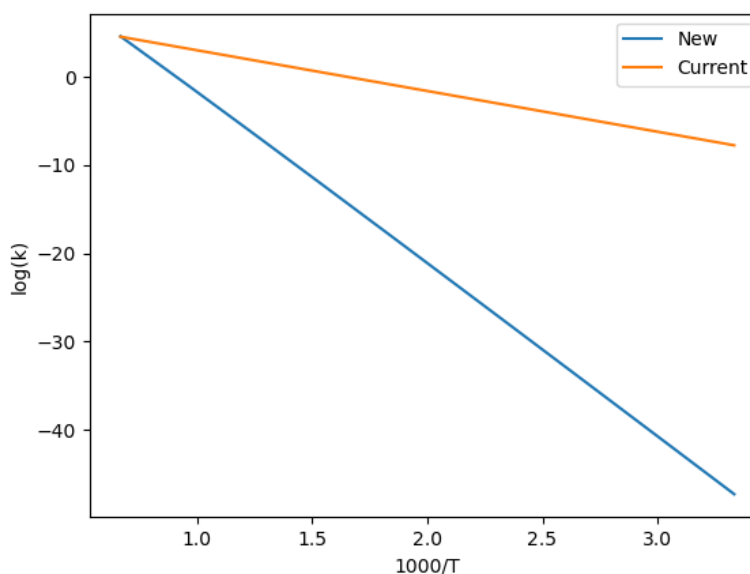
Arrhenius($A=(1.78e+17, 's^{-1}')$, $n=-0.39$, $E_a=(117839, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1e+06, 'm^3/(mol*s)')$, $n=0$, $w_0=(242.5, 'kJ/mol')$, $E_0=(126.651, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C""")



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

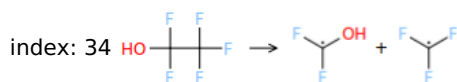


New Kinetics:

Arrhenius($A=(6.79e+23, 's^{-1}')$, $n=-1.88$, $E_a=(91230.4, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""")



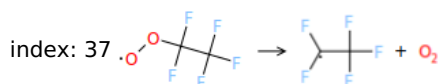
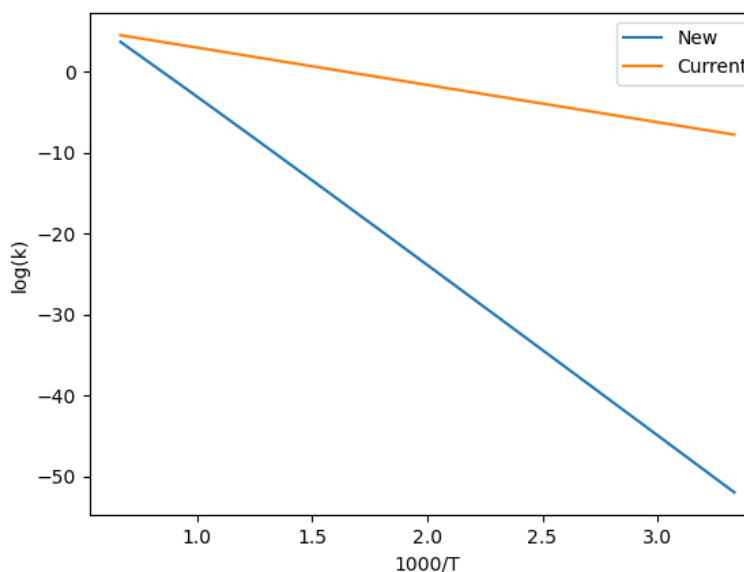
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(2.86e+24, 's^{-1}')$, $n=-2.04$, $E_a=(98006.3, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""")



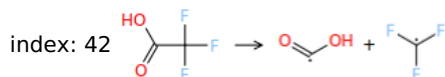
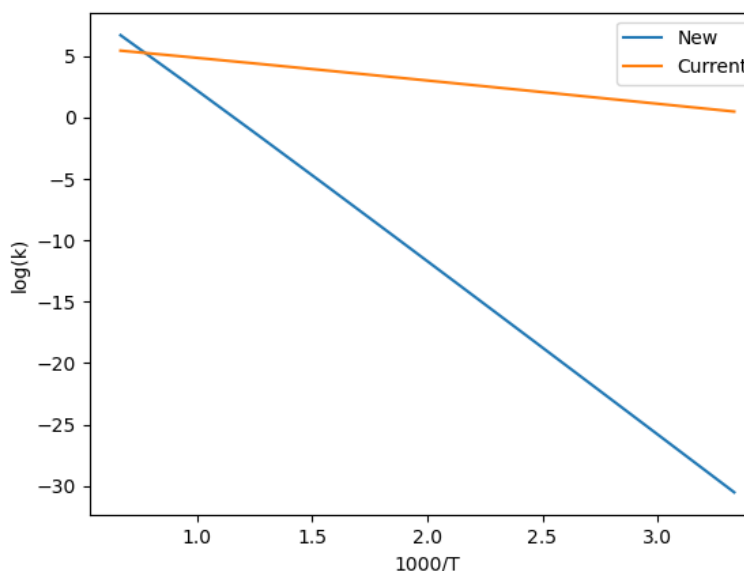
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(3.08e+21, 's^{-1}')$, $n=-1.64$, $E_a=(65799.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.6844e+07, 'm^3/(mol*s)')$, $n=-0.361029$, $w_0=(179, 'kJ/mol')$, $E_0=(37.3913, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R Multiplied by reaction path degeneracy 2.0""")



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

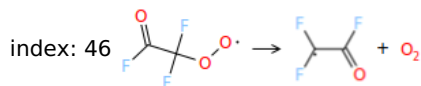
New Kinetics:

Arrhenius($A=(6.39e+24, 's^{-1}')$, $n=-2.26$, $E_a=(91093.9, 'cal/mol')$, $T_0=(1, 'K')$)

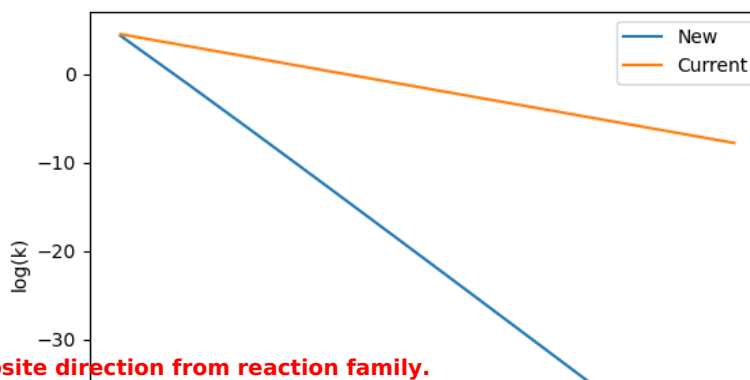
Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0,$

var=33.13686319048999, Tref=1000.0, N=1,
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 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_4R!H->O'), comment=""
 Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-
 1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->
 C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-
 R_4R!H->O""")



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

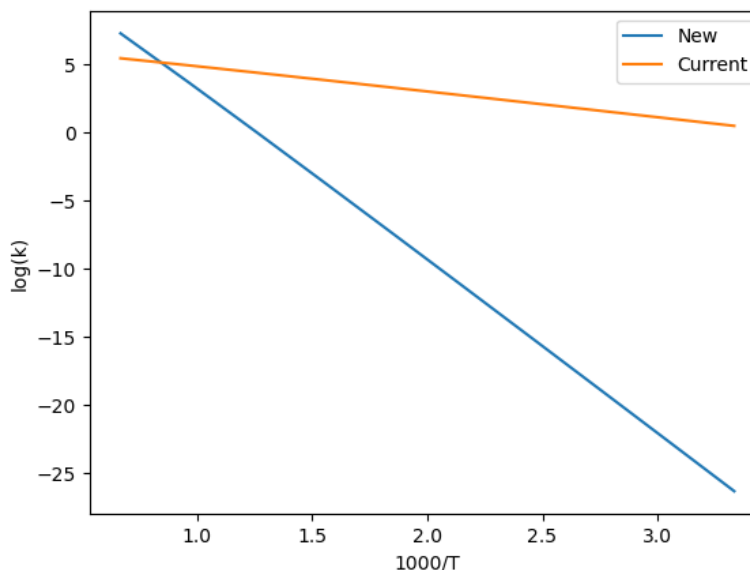


New Kinetics:

Arrhenius($A=(1.03e+21, 's^{-1}')$, $n=-1.6$, $E_a=(59501.3, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.6844e+07, 'm^3/(mol*s)')$, $n=-0.361029$, $w_0=(179, 'kJ/mol')$, $E_0=(37.3913, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0$, $var=33.13686319048999$, $T_{ref}=1000.0$, $N=1$, $data_mean=0.0$, $correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R')$, $comment=""$
 Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R
 Multiplied by reaction path degeneracy 2.0""")



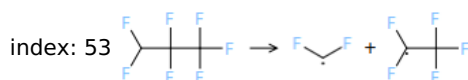
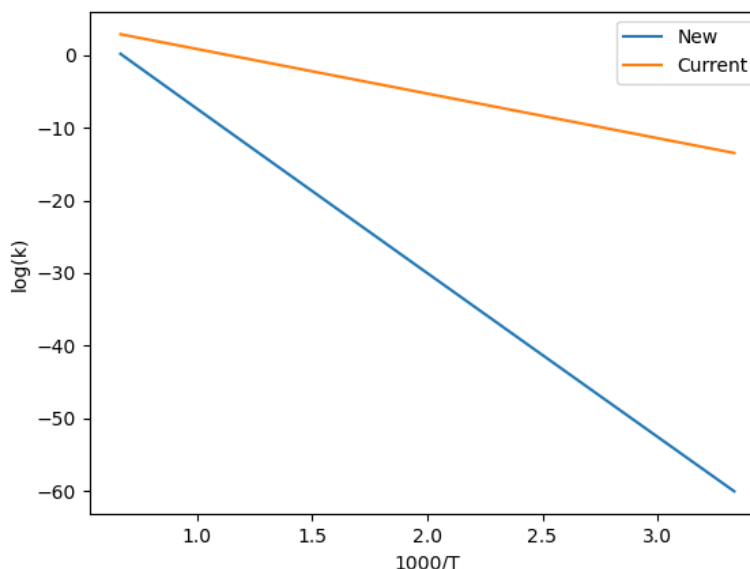
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(1.67e+13, 's^{-1}')$, $n=0.61$, $E_a=(102677, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(205.5, 'kJ/mol')$, $E_0=(117.474, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0$, $var=33.13686319048999$, $T_{ref}=1000.0$, $N=1$, $data_mean=0.0$, $correlation='Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_4R!H->C_Ext-4C-R_N-5R!H->Cl_N-5BrCFINOPSSi->Br_5CF->C')$, $comment=""$
 Estimated from node Root_1R->H_N-2R->S_N-2BrCCIFHNO-inRing_N-2BrCCIFHNO->O_N-2CHN->N_2CH->C_Ext-2C-R_3R!H->F_Ext-2C-R_4R!H->C_Ext-4C-R_N-5R!H->Cl_N-5BrCFINOPSSi->Br_5CF->C""")



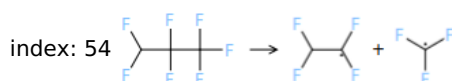
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

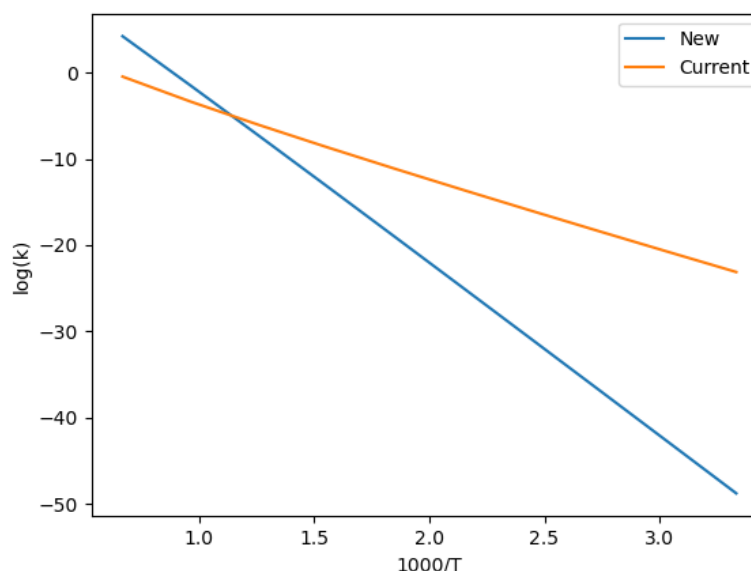
Arrhenius($A=(8.35e+23, 's^{-1}')$, $n=-1.92$, $E_a=(93296.2, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""



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



New Kinetics:

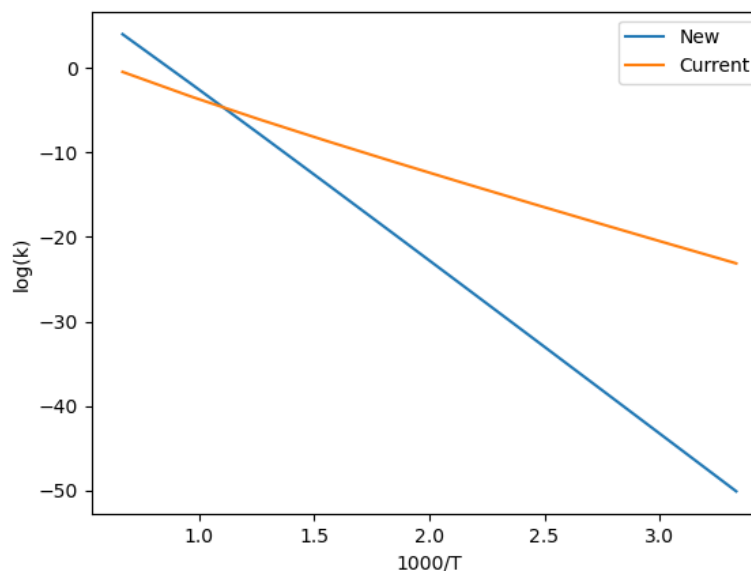
Arrhenius($A=(4e+24, 's^{-1}')$, $n=-2.11$, $E_a=(95383.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""



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



New Kinetics:

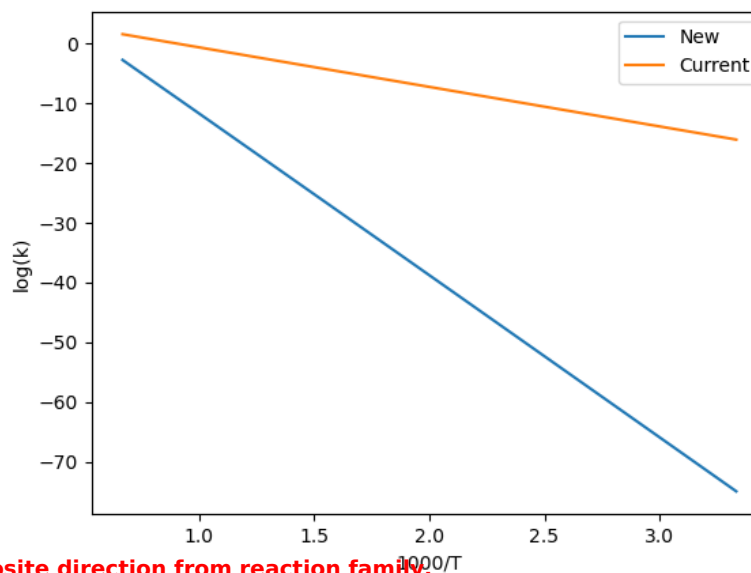
Arrhenius($A=(1.19 \times 10^{17}, \text{s}^{-1})$, $n=-0.52$, $E_a=(124543, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(1 \times 10^6, \text{m}^3/(\text{mol} \cdot \text{s}))$, $n=0$, $w_0=(242.5, \text{kJ/mol})$, $E_0=(126.651, \text{kJ/mol})$, $T_{\min}=(300, \text{K})$, $T_{\max}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C\"\"\"}'$)



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



New Kinetics:

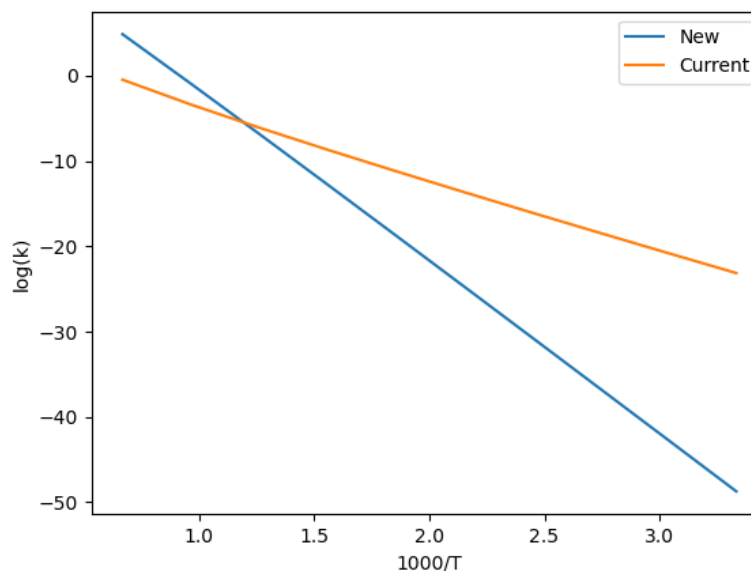
Arrhenius($A=(1.21 \times 10^{25}, \text{s}^{-1})$, $n=-2.03$, $E_a=(94408.1, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(2.63131 \times 10^{-11}, \text{m}^3/(\text{mol} \cdot \text{s}))$, $n=4.71246$, $w_0=(173, \text{kJ/mol})$, $E_0=(139.101, \text{kJ/mol})$, $T_{\min}=(300, \text{K})$, $T_{\max}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R\"\"\"}'$)



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

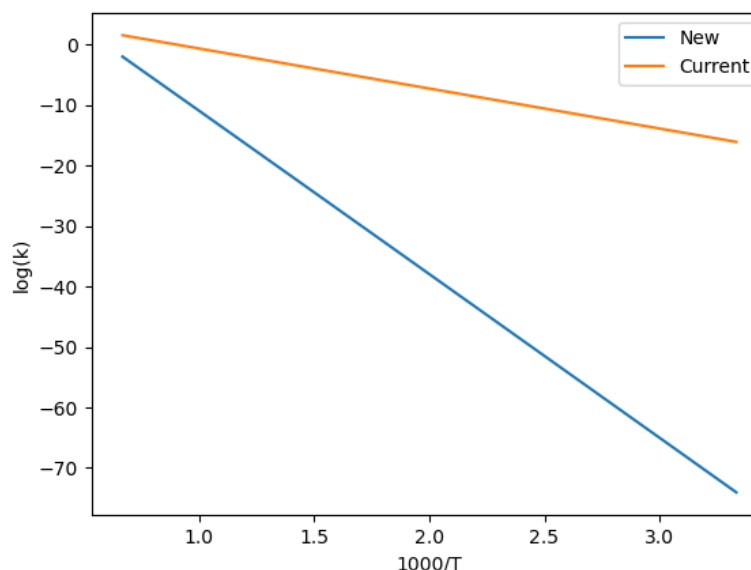


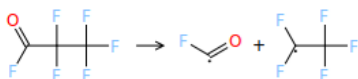
New Kinetics:

Arrhenius($A=(3.16 \times 10^{17}, \text{s}^{-1})$, $n=-0.43$, $E_a=(124181, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(1 \times 10^6, \text{m}^3/(\text{mol} \cdot \text{s}))$, $n=0$, $w_0=(242.5, \text{kJ/mol})$, $E_0=(126.651, \text{kJ/mol})$, $T_{\min}=(300, \text{K})$, $T_{\max}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C\"\"\"}'$)





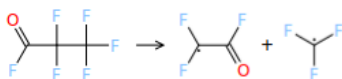
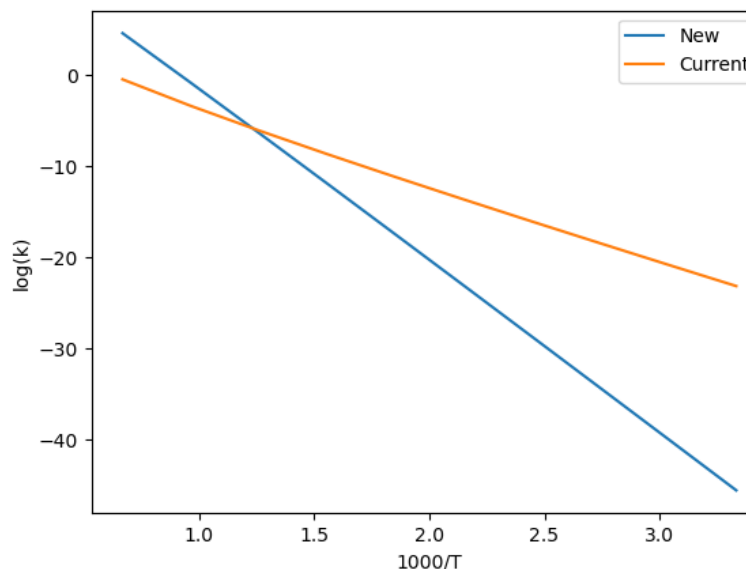
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius(A=(5.93e+22,'s^-1'), n=-1.68, Ea=(88047.8,'cal/mol'), T0=(1,'K'))

Current Kinetics

```
ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246,
w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'),
Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,
var=33.13686319048999, Tref=1000.0, N=1,
data_mean=0.0, correlation='Root_N-1R->H_N-
1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
comment="""Estimated from node Root_N-1R->H_N-
1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")
```



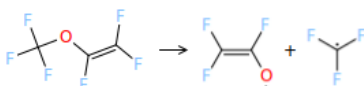
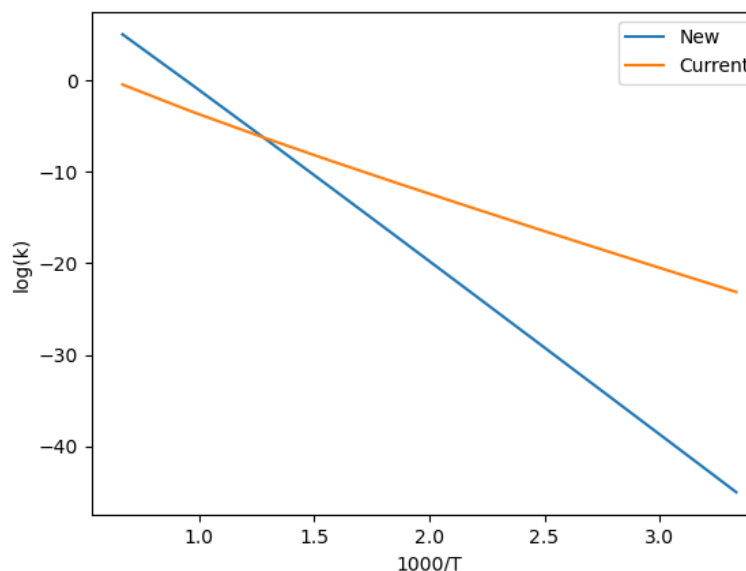
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius(A=(3.54e+23,'s^-1'), n=-1.79, Ea=(88037,'cal/mol'), T0=(1,'K'))

Current Kinetics

```
ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246,
w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'),
Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,
var=33.13686319048999, Tref=1000.0, N=1,
data_mean=0.0, correlation='Root_N-1R->H_N-
1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),),
comment="""Estimated from node Root_N-1R->H_N-
1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")
```



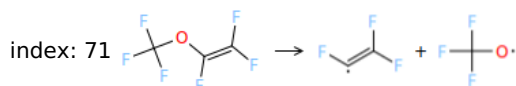
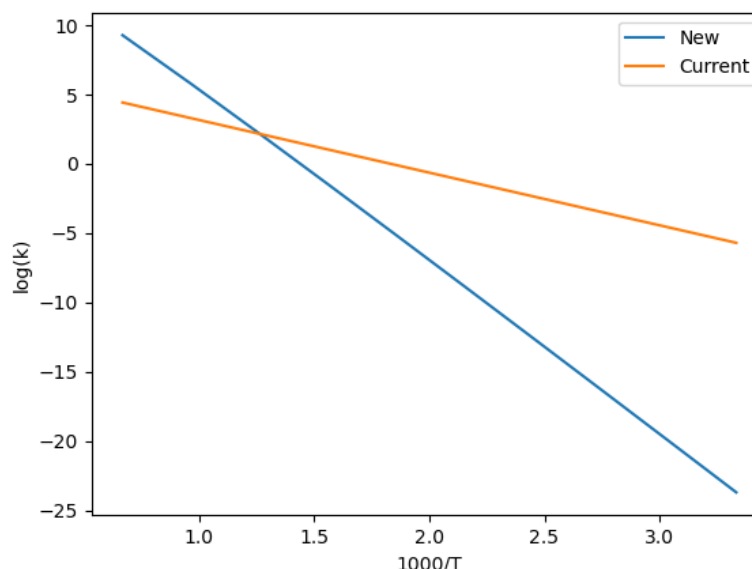
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(4.66e+24, 's^{-1}')$, $n=-2.13$, $E_a=(59169.3, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")



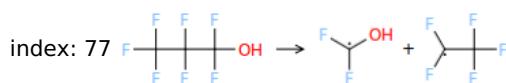
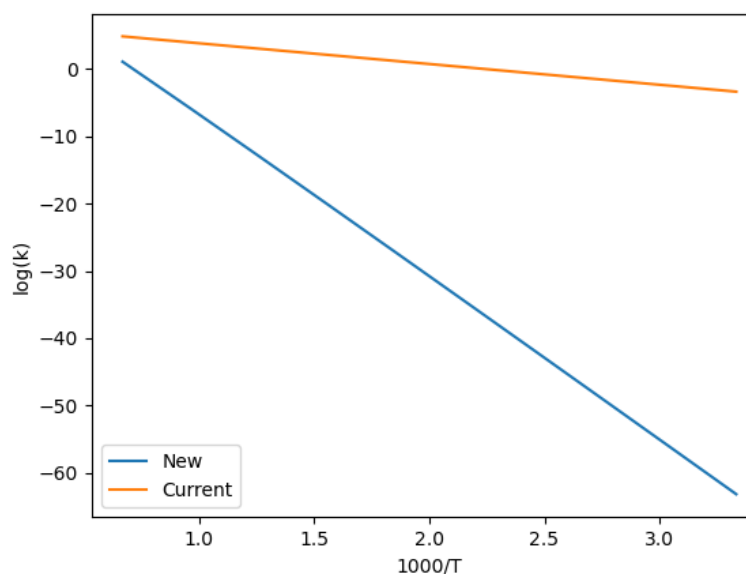
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(6.96e+23, 's^{-1}')$, $n=-2.01$, $E_a=(112565, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C""")



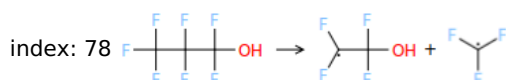
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

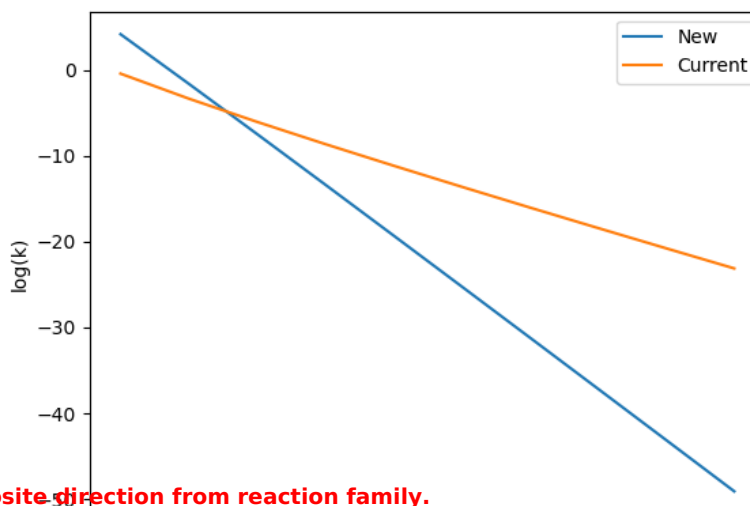
Arrhenius($A=(2.51e+23, 's^{-1}')$, $n=-1.78$, $E_a=(93426.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment=""



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

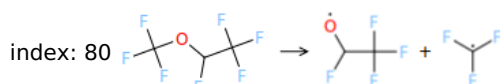


New Kinetics:

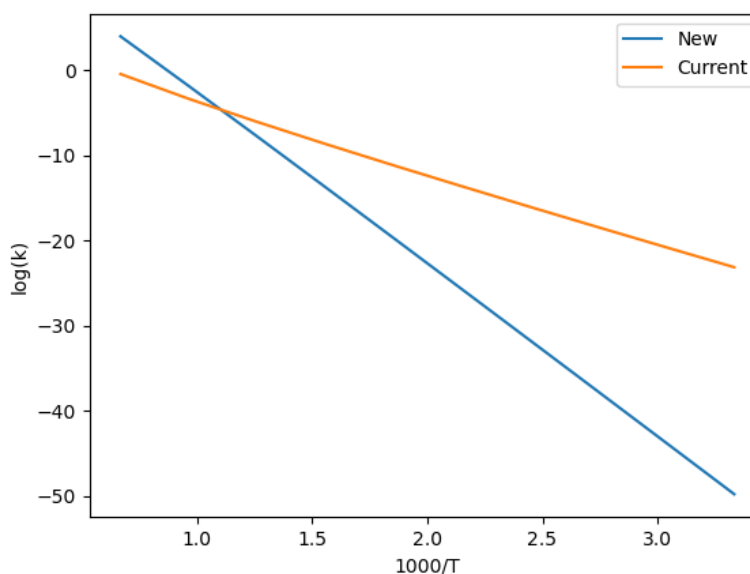
Arrhenius(A=(2.29e+23,'s^-1'), n=-1.78, Ea=(94310.4,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment=""



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

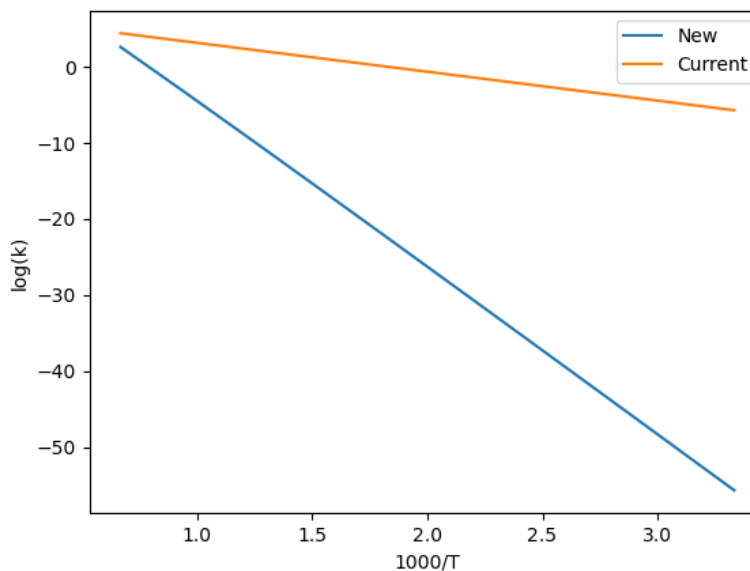


New Kinetics:

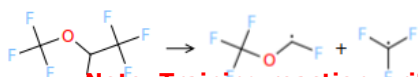
Arrhenius(A=(7.69e+23,'s^-1'), n=-2, Ea=(102396,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(9.04e+06,'m^3/(mol*s)'), n=2.17087e-08, w0=(179,'kJ/mol'), E0=(72.7054,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'), comment=""



index: 81



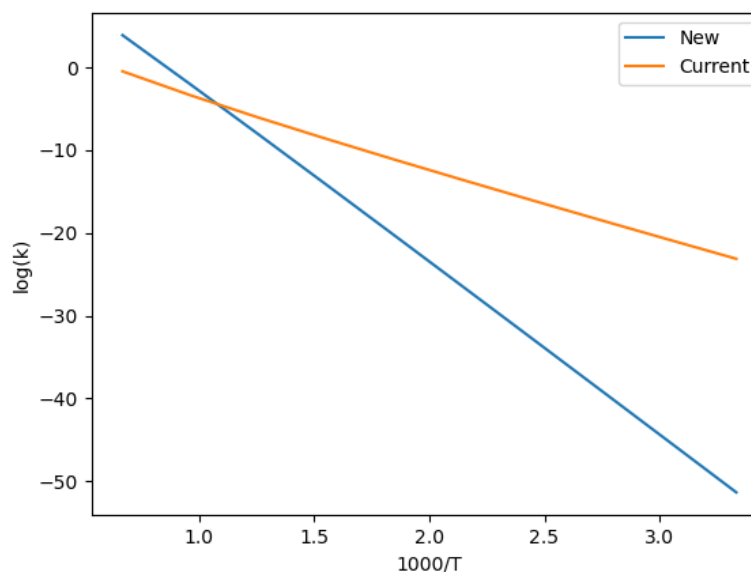
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

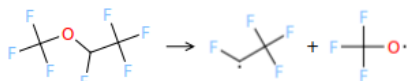
Arrhenius($A=(5.87e+24, 's^{-1}')$, $n=-2.1$, $E_a=(97369.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index: 82



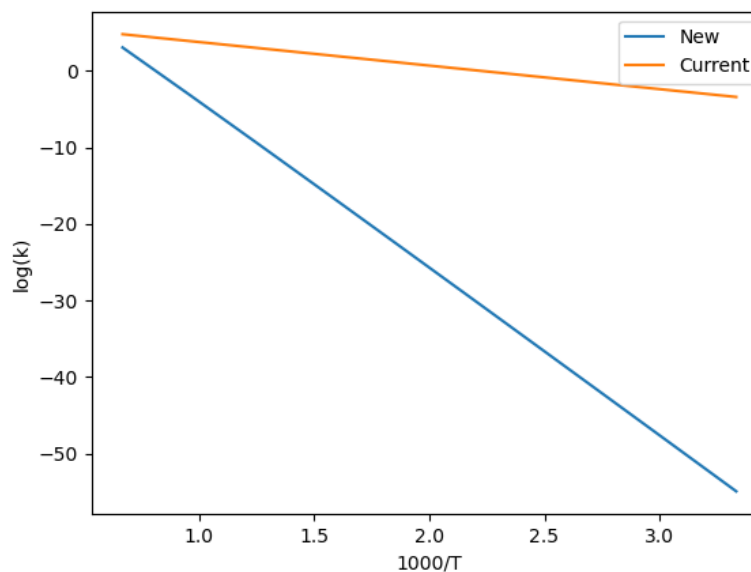
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

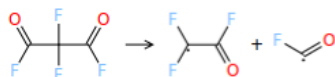
Arrhenius($A=(4.51e+23, 's^{-1}')$, $n=-1.81$, $E_a=(101746, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, T_{ref}=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'$ """)



index: 90



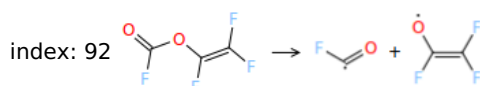
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

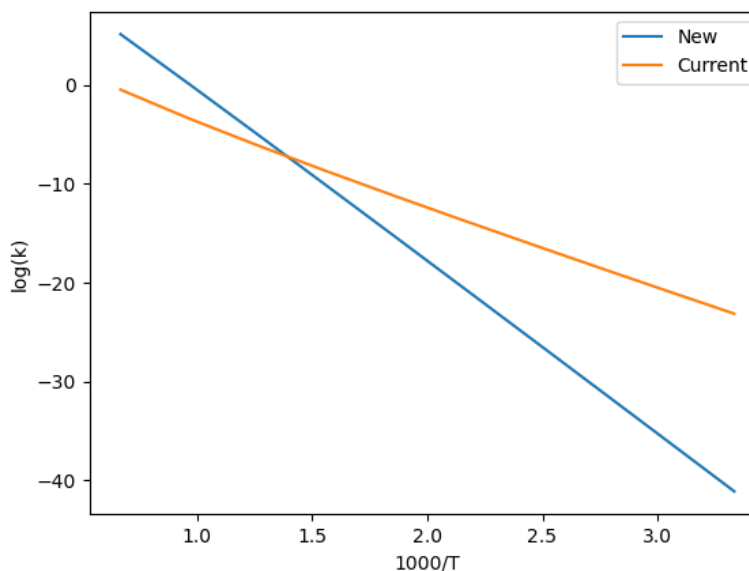
Arrhenius($A=(7.01e+21, 's^{-1}')$, $n=-1.53$, $E_a=(81204.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



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

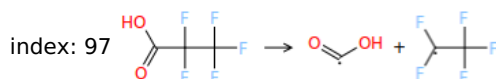


New Kinetics:

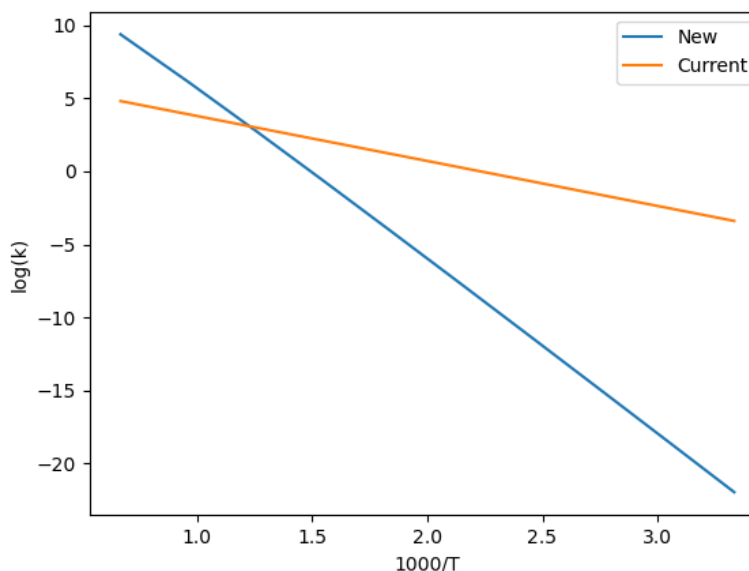
Arrhenius($A=(4.57e+25, 's^{-1}')$, $n=-2.52$, $E_a=(56793.8, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=-0.016021952005170214, var=0.3543710496450803, T_{ref}=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'$ """)



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

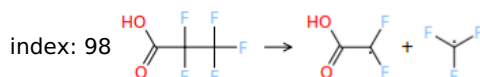


New Kinetics:

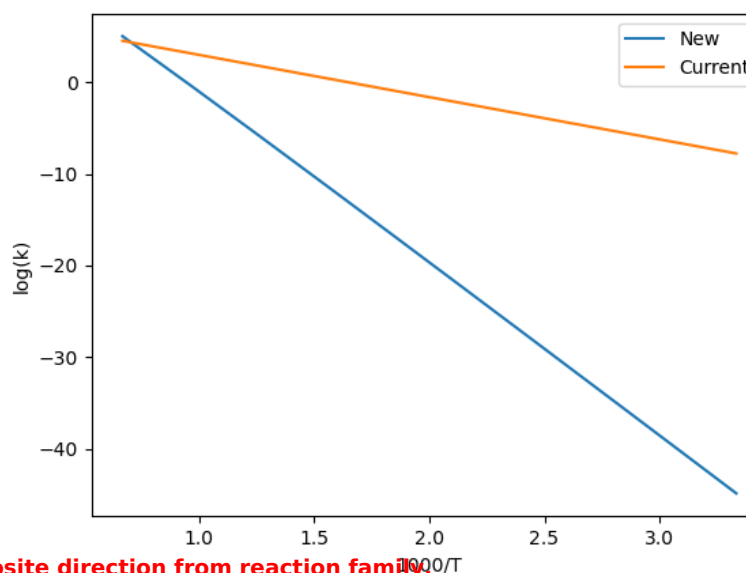
Arrhenius($A=(1.61e+24, 's^{-1}')$, $n=-2$, $E_a=(88017.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""



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

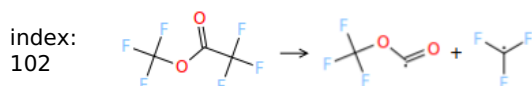


New Kinetics:

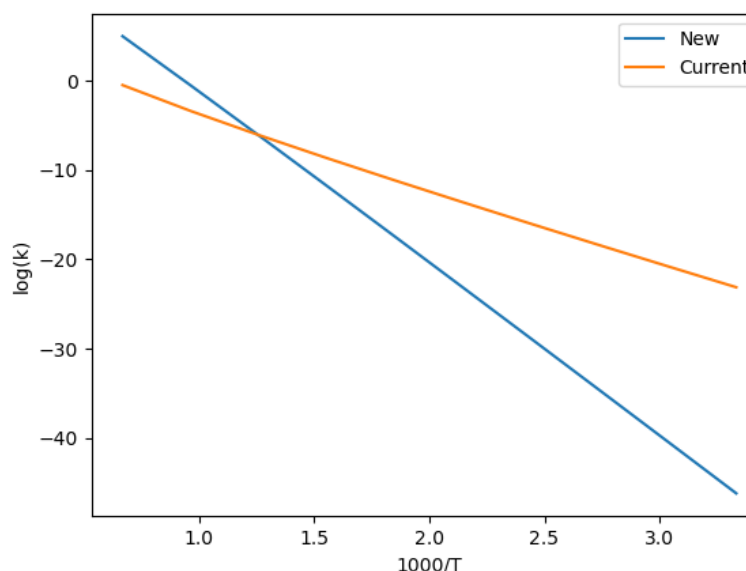
Arrhenius($A=(7.54e+24, 's^{-1}')$, $n=-2.1$, $E_a=(90470.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""



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



New Kinetics:

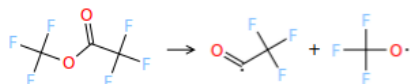
Arrhenius($A=(1.4e+25, 's^{-1}')$, $n=-2.35$, $E_a=(89361.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

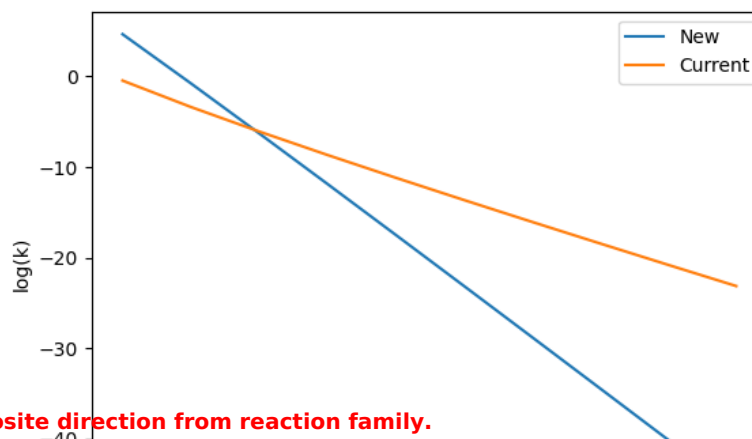
ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$,

w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
103



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

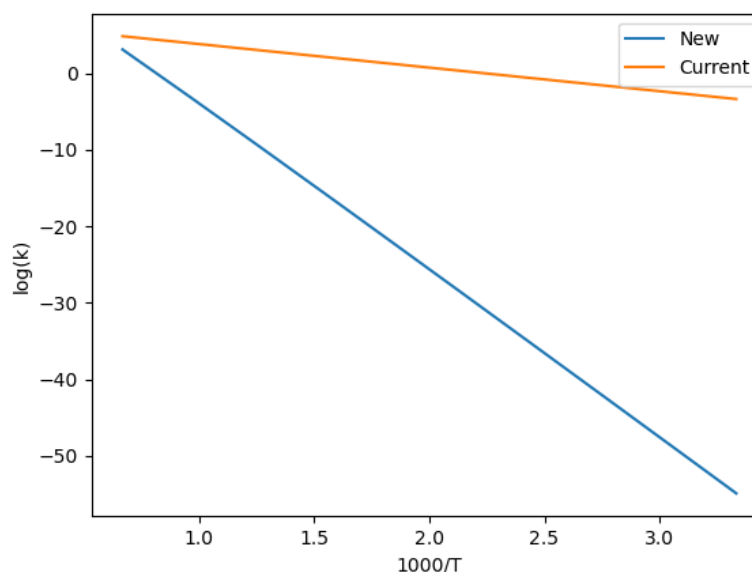


New Kinetics:

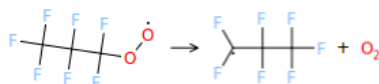
Arrhenius(A=(6.96e+24,'s^-1'), n=-2.17, Ea=(102065,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(7.38316e+06,'m^3/(mol*s)'), n=1.31229e-07, w0=(179,'kJ/mol'), E0=(58.9141,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C""")



index:
105



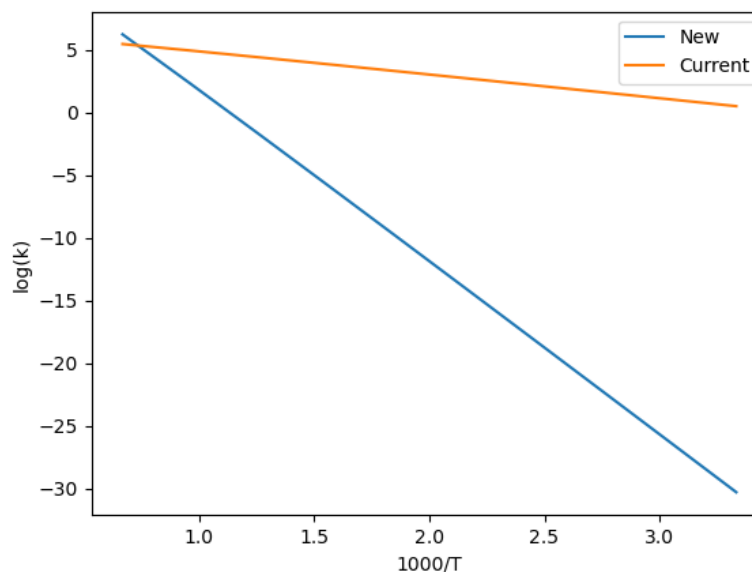
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

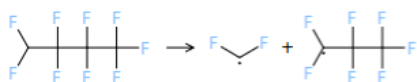
Arrhenius(A=(5.31e+19,'s^-1'), n=-1.31, Ea=(64218.7,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(7.6844e+07,'m^3/(mol*s)'), n=-0.361029, w0=(179,'kJ/mol'), E0=(37.3913,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_3R!H->O_2R->C_N-2C-inRing_Ext-2C-R_Ext-4R!H-R_Sp-5R!H-4R!H_Ext-2C-R Multiplied by reaction path degeneracy 2.0""")



index:
111



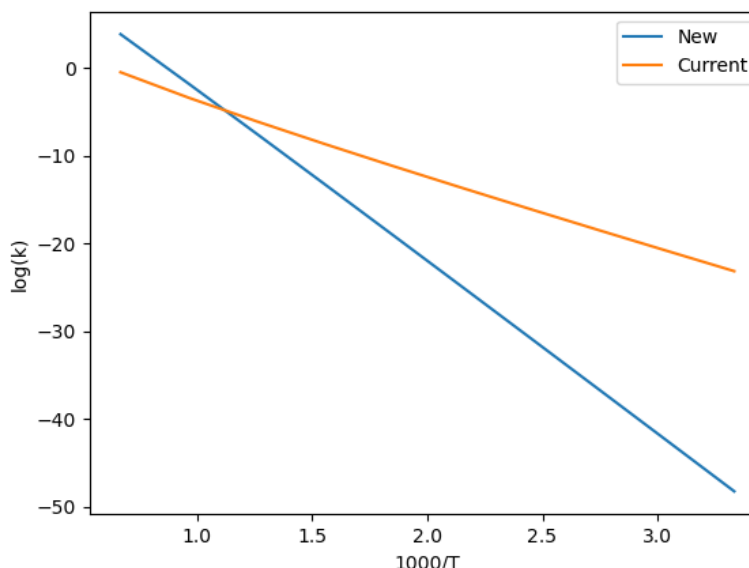
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

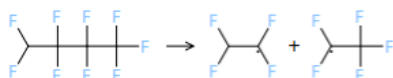
Arrhenius($A=(5.01e+22, 's^{-1}')$, $n=-1.73$, $E_a=(91468.2, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index:
112



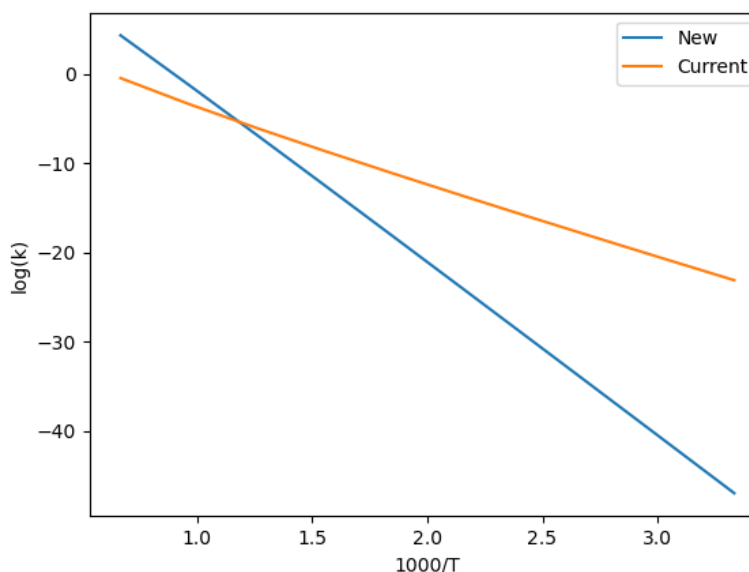
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

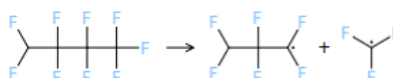
Arrhenius($A=(4.02e+23, 's^{-1}')$, $n=-1.92$, $E_a=(90402.8, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index:
113



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

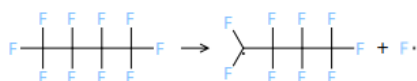
New Kinetics:

Arrhenius($A=(2.74e+23, 's^{-1}')$, $n=-1.92$, $E_a=(92942.2, 'cal/mol')$, $T_0=(1, 'K')$)

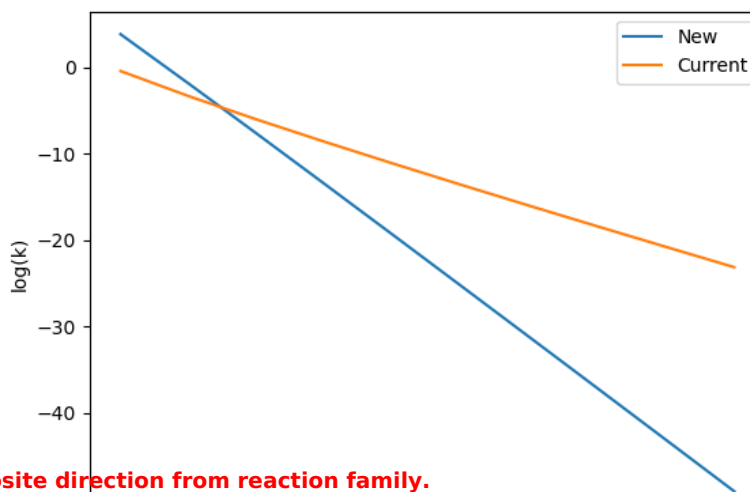
Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R")

index:
115



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



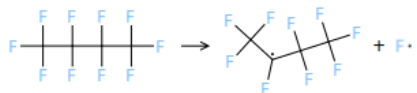
New Kinetics:

Arrhenius(A=(4.58e+16,'s^-1'), n=-0.24, Ea=(123786,'cal/mol'), T0=(1,'K'))

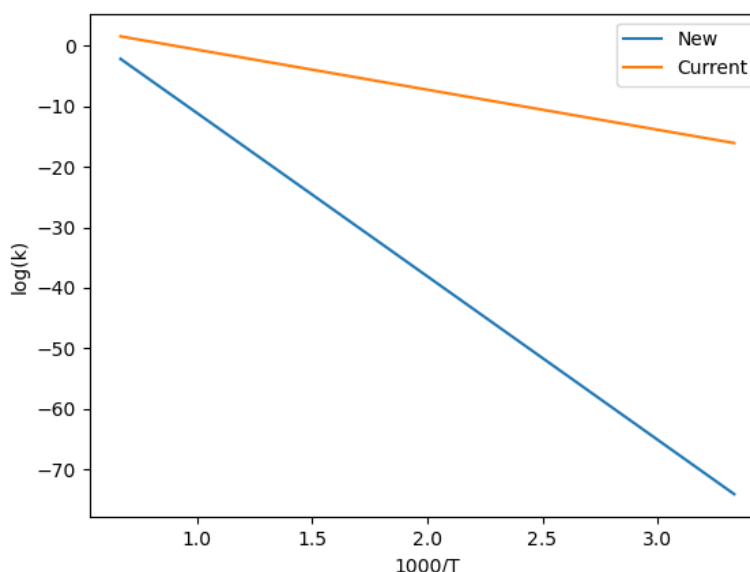
Current Kinetics

ArrheniusBM(A=(1e+06,'m^3/(mol*s)'), n=0, w0=(242.5,'kJ/mol'), E0=(126.651,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C'), comment="Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C")

index:
116



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



New Kinetics:

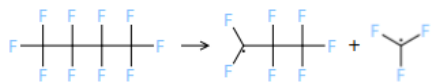
Arrhenius(A=(1.5e+16,'s^-1'), n=-0.25, Ea=(115077,'cal/mol'), T0=(1,'K'))

Current Kinetics

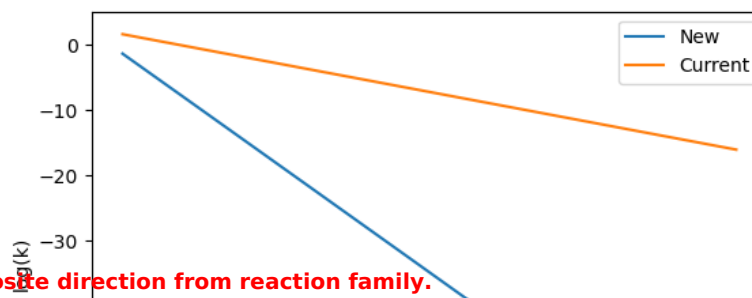
ArrheniusBM(A=(1e+06,'m^3/(mol*s)'), n=0, w0=(242.5,'kJ/mol'), E0=(126.651,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-

1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C'), comment=""
 Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF->C""")

index:
117



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

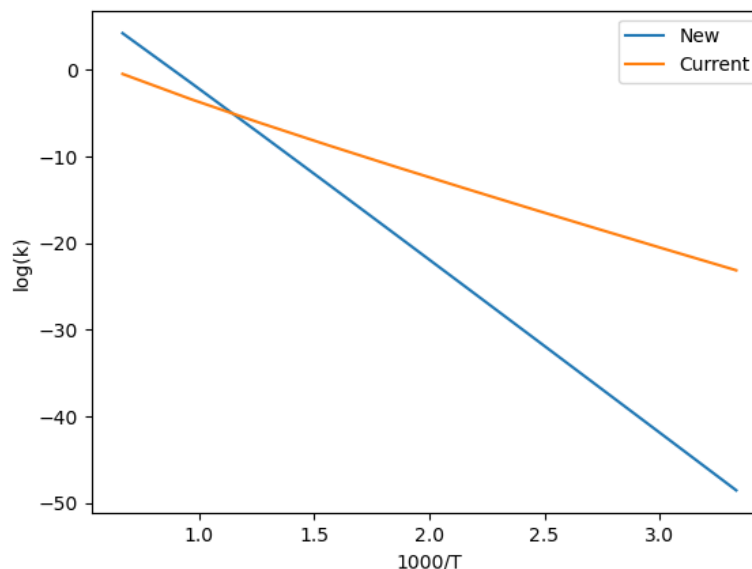


New Kinetics:

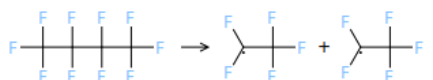
Arrhenius(A=(4.06e+23,'s^-1'), n=-1.84, Ea=(92772.2,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF-R_Ext-4R!H-R'), comment=""
 Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF-R_Ext-4R!H-R""")



index:
118



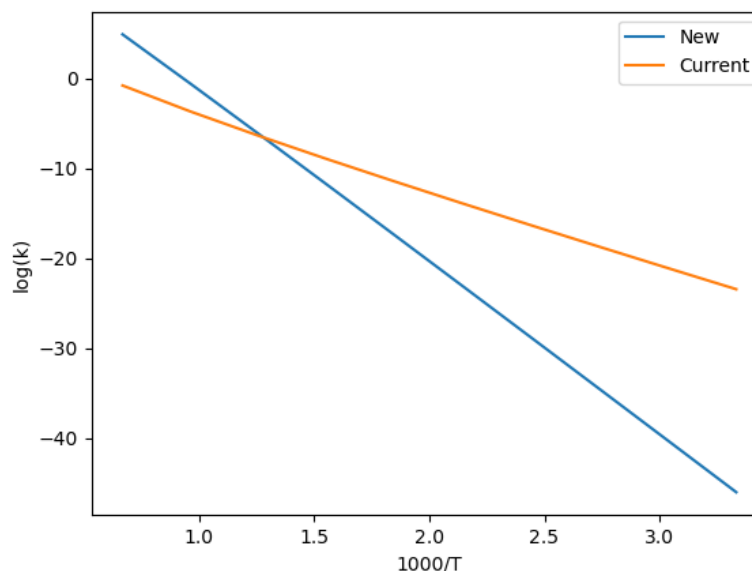
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

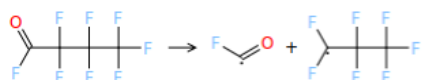
Arrhenius(A=(6.8e+23,'s^-1'), n=-1.84, Ea=(89619.2,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(1.31566e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF-R_Ext-4R!H-R'), comment=""
 Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_N-2CF-R_Ext-4R!H-R""")



index:
122



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

New Kinetics:

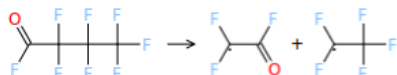
Arrhenius(A=(2.41e+21,'s^-1'), n=-1.45, Ea=

(86577.5,'cal/mol'), T0=(1,'K'))

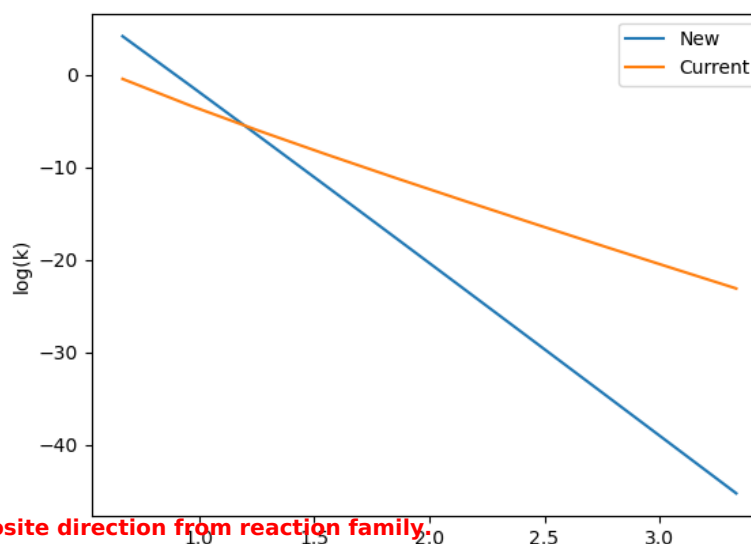
Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
123



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



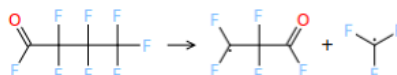
New Kinetics:

Arrhenius(A=(2.42e+22,'s^-1'), n=-1.56, Ea=(83413.6,'cal/mol'), T0=(1,'K'))

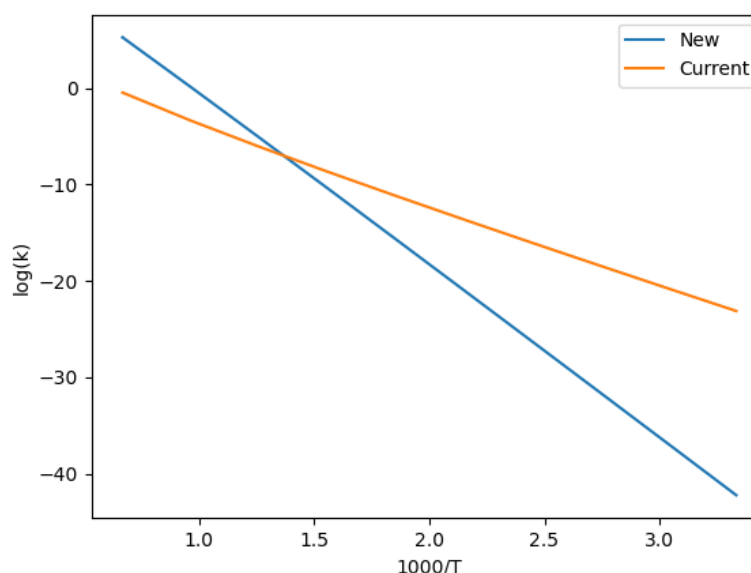
Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
124



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



New Kinetics:

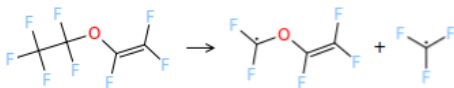
Arrhenius(A=(2.09e+22,'s^-1'), n=-1.56, Ea=(93214.4,'cal/mol'), T0=(1,'K'))

Current Kinetics

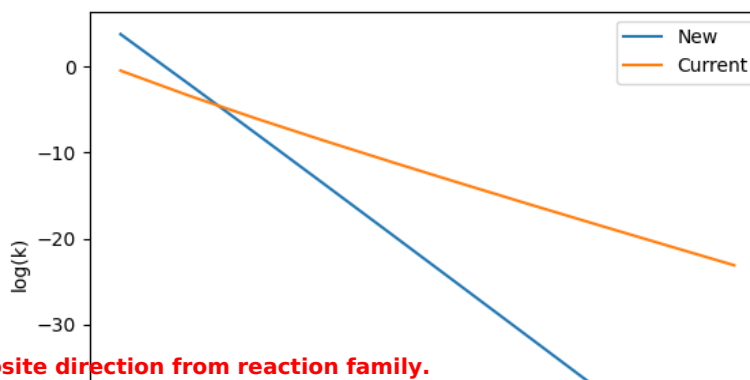
ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,

var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
128



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

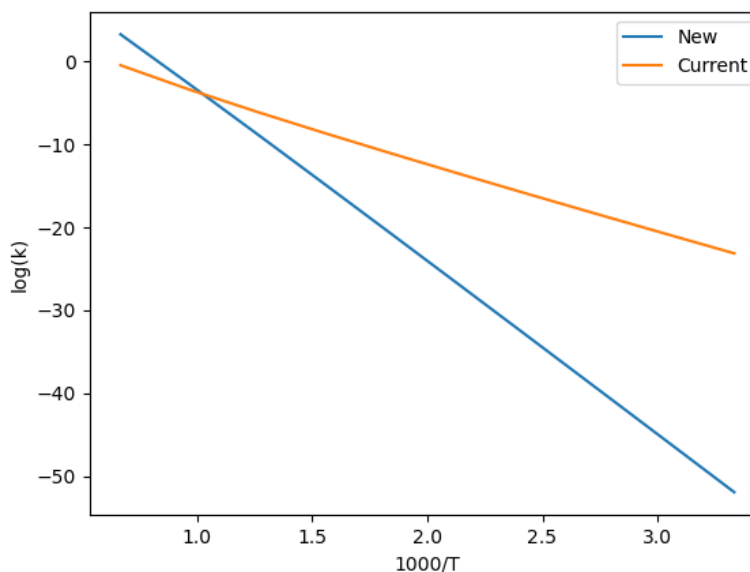


New Kinetics:

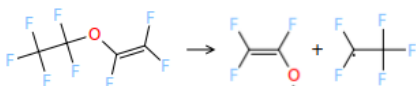
Arrhenius($A=(3.69e+24, 's^{-1}')$, $n=-2.24$, $E_a=(97357.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0$, $var=33.13686319048999$, $T_{ref}=1000.0$, $N=1$, $data_mean=0.0$, $correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""$)



index:
129



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

New Kinetics:

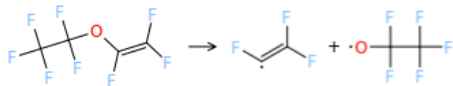
Arrhenius($A=(2.17e+24, 's^{-1}')$, $n=-2.17$, $E_a=(55469.8, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

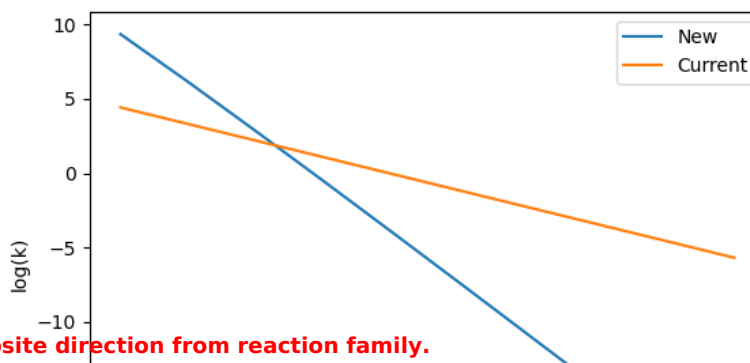
ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0$,

var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-
 1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-
 1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")

index:
 130



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

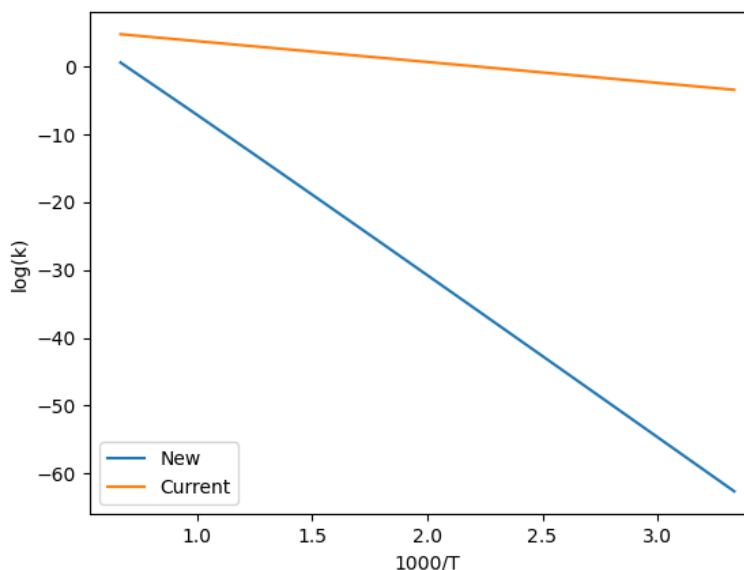


New Kinetics:

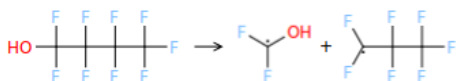
Arrhenius($A=(1.33e+23, 's^{-1}')$, $n=-1.99$, $E_a=(111007, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$,
 $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$,
 $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$,
 uncertainty=RateUncertainty($\mu=-$
 0.016021952005170214, $\text{var}=0.3543710496450803$,
 Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-
 1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS-
 >O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-
 1O-R_N-3R!H->O_Ext-2R-R_2R->C""")



index:
 137



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

New Kinetics:

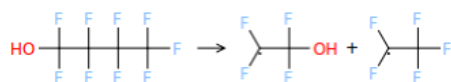
Arrhenius($A=(3.66e+22, 's^{-1}')$, $n=-1.67$, $E_a=(91685, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

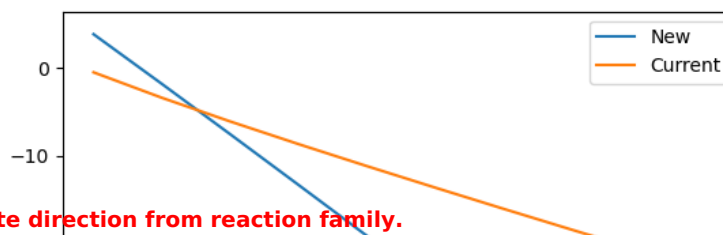
ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$,
 $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$,
 $T_{max}=(2000, 'K')$, uncertainty=RateUncertainty($\mu=0.0$,
 var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
 comment=""Estimated from node Root_N-1R->H_N-

1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
138



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

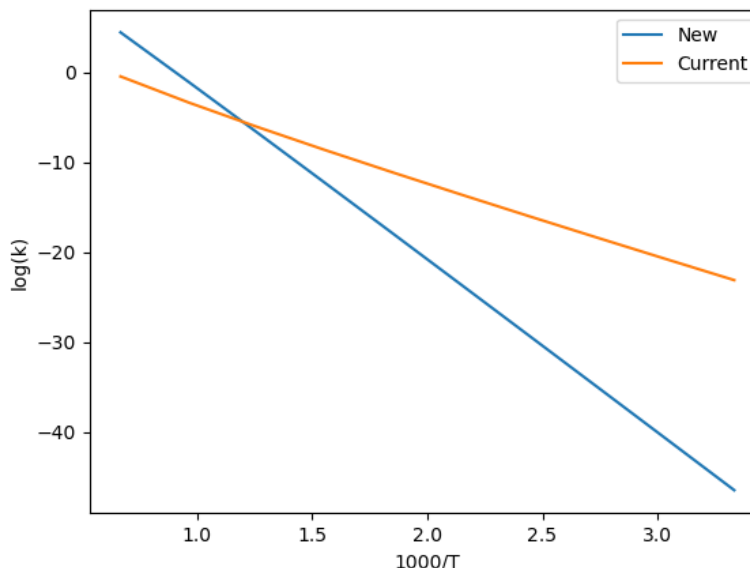


New Kinetics:

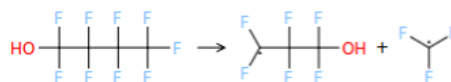
Arrhenius($A=(5.6e+22, 's^{-1}')$, $n=-1.66$, $E_a=(89416.2, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:
139



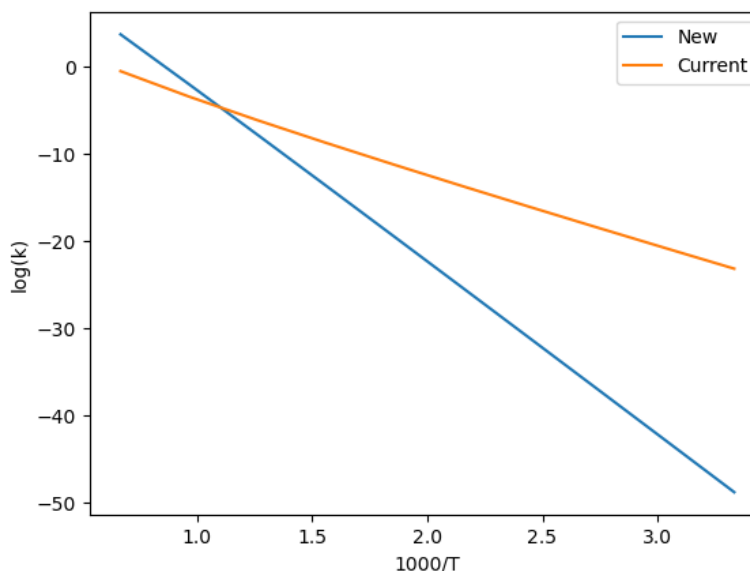
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

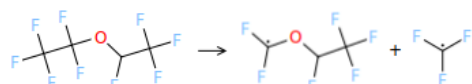
Arrhenius($A=(3.16e+22, 's^{-1}')$, $n=-1.67$, $E_a=(92160.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:
141



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

New Kinetics:

Arrhenius($A=(2.29e+25, 's^{-1}')$, $n=-2.47$, $E_a=(97424.5, 'cal/mol')$, $T_0=(1, 'K')$)

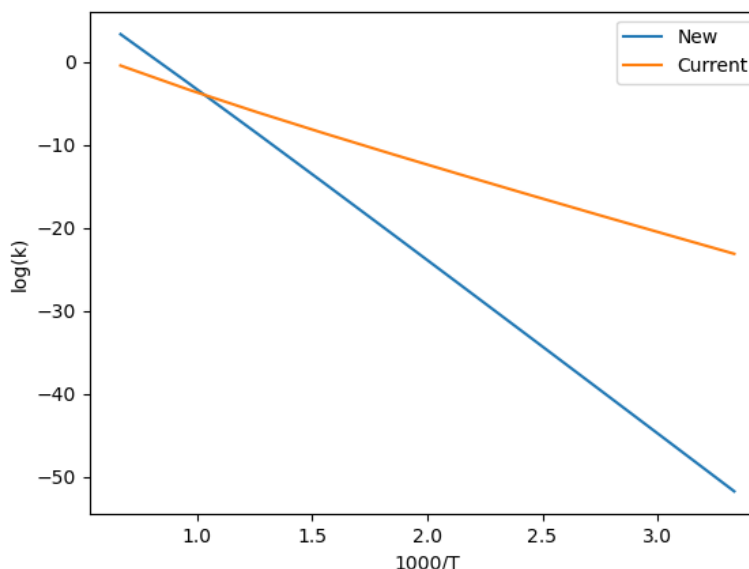
Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)

index:
142



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



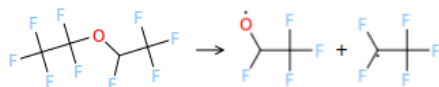
New Kinetics:

Arrhenius($A=(4.69e+24, 's^{-1}')$, $n=-2.22$, $E_a=(97230.6, 'cal/mol')$, $T_0=(1, 'K')$)

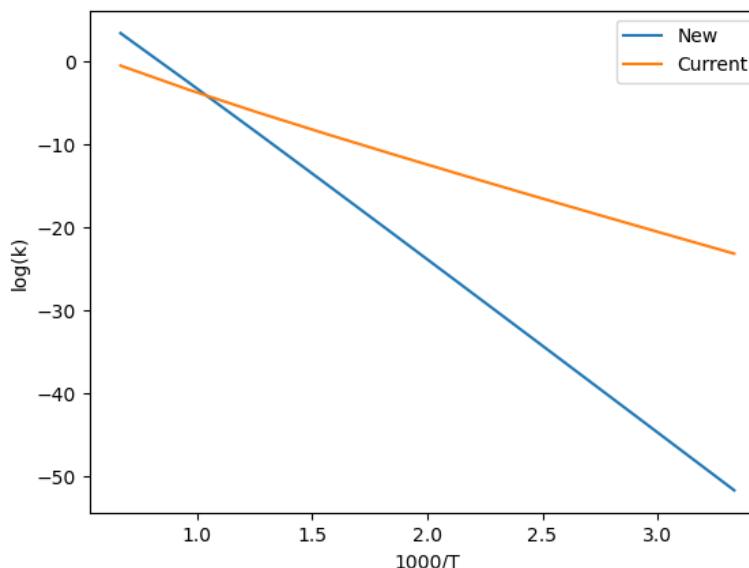
Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)

index:
143



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



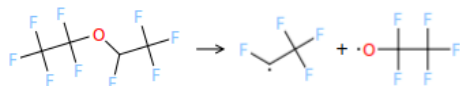
New Kinetics:

Arrhenius($A=(6.76e+23, 's^{-1}')$, $n=-2.12$, $E_a=(99032, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM(A=(9.04e+06,'m^3/(mol*s)'), n=2.17087e-08, w0=(179,'kJ/mol'), E0=(72.7054,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")

index:
144



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

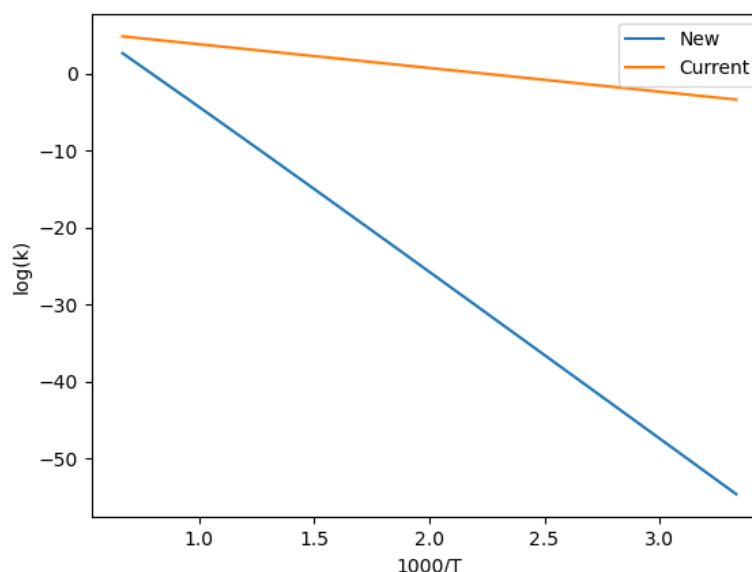


New Kinetics:

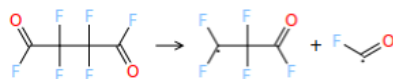
Arrhenius(A=(1.63e+23,'s^-1'), n=-1.87, Ea=(100523,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(7.38316e+06,'m^3/(mol*s)'), n=1.31229e-07, w0=(179,'kJ/mol'), E0=(58.9141,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C""")



index:
147



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

New Kinetics:

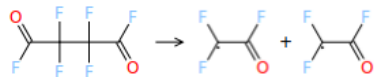
Arrhenius(A=(3.61e+20,'s^-1'), n=-1.3, Ea=(86978.3,'cal/mol'), T0=(1,'K'))

Current Kinetics

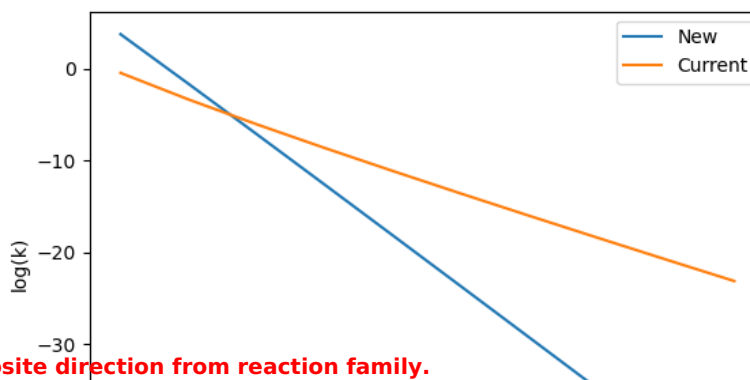
ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,

var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
148



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

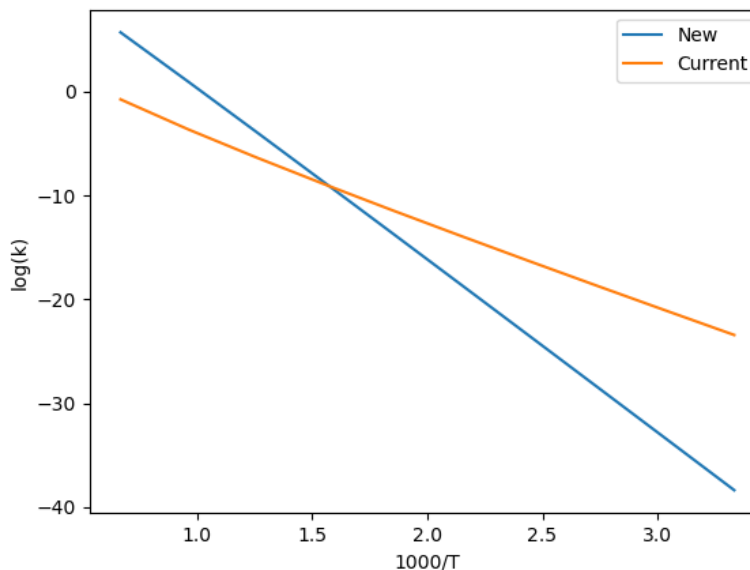


New Kinetics:

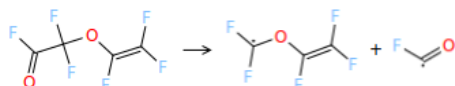
Arrhenius($A=(2.49e+21, 's^{-1}')$, $n=-1.4$, $E_a=(77266.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

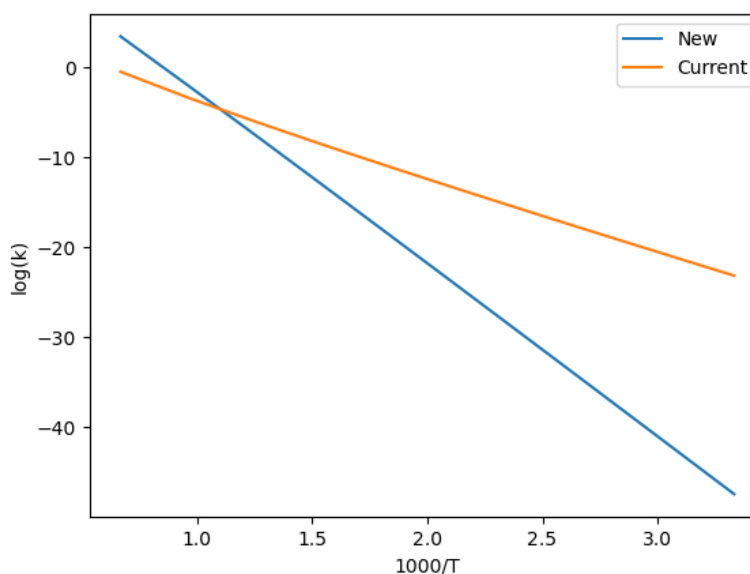
ArrheniusBM($A=(1.31566e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0$, $var=33.13686319048999$, $T_{ref}=1000.0$, $N=1$, $data_mean=0.0$, $correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""$)



index:
150



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



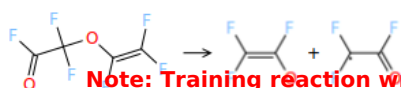
New Kinetics:

Arrhenius($A=(9.11e+21, 's^{-1}')$, $n=-1.72$, $E_a=(89384.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0$, $var=33.13686319048999$, $T_{ref}=1000.0$, $N=1$, $data_mean=0.0$, $correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""$)

index:
151



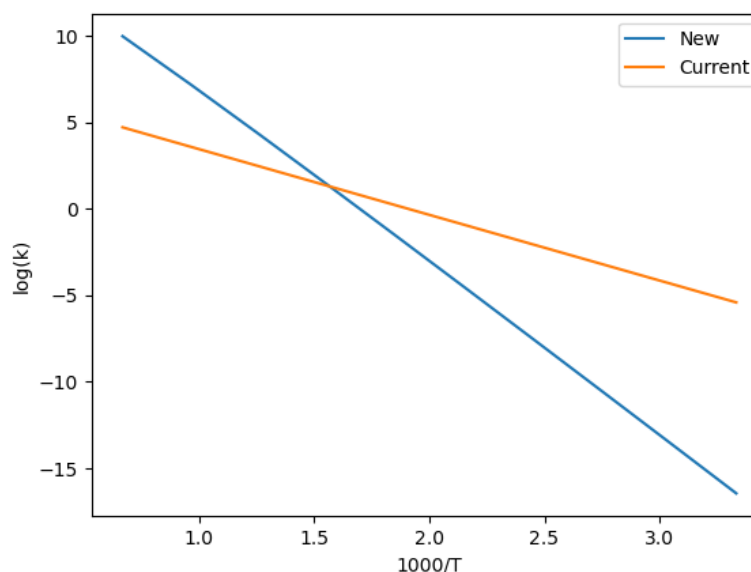
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

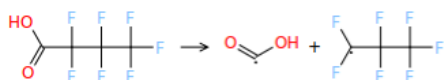
Arrhenius($A=(3.2e+22, 's^{-1}')$, $n=-1.76$, $E_a=(47485.2, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(1.808e+07, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R$ Multiplied by reaction path degeneracy $2.0""$)



index:
158



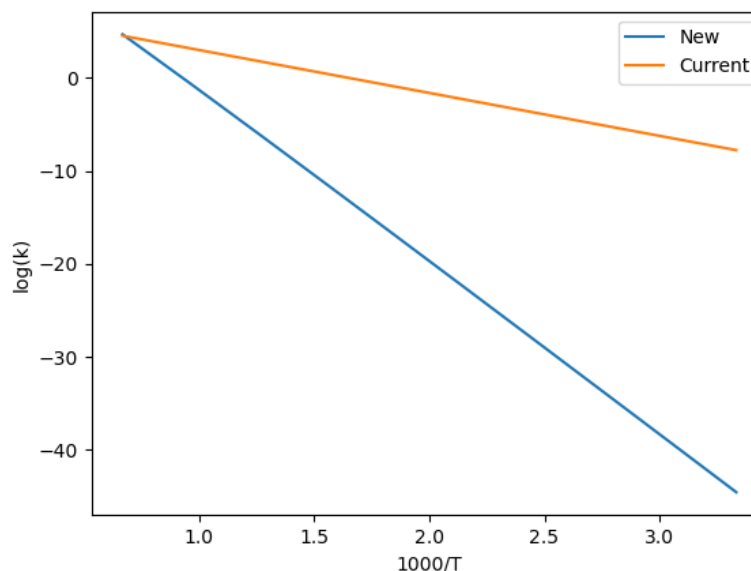
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

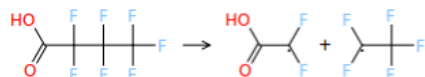
Arrhenius($A=(1.5e+23, 's^{-1}')$, $n=-1.85$, $E_a=(86653.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""$)



index:
159



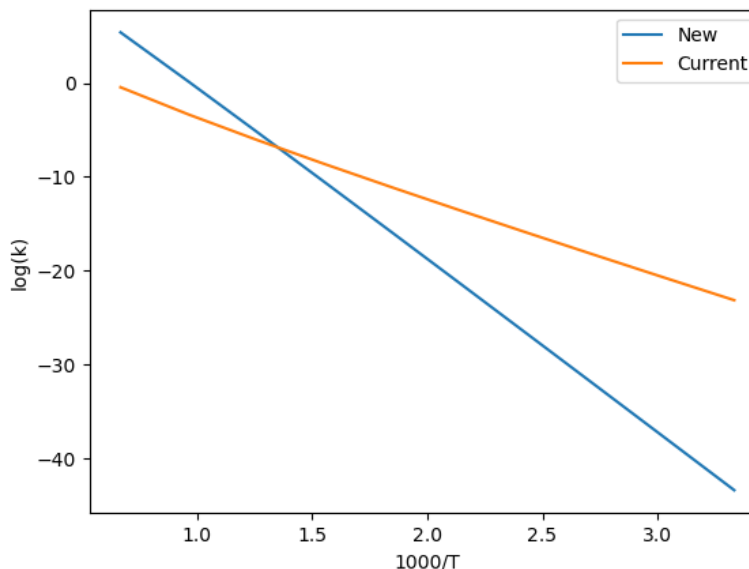
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

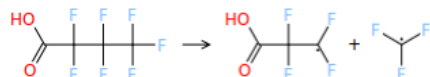
Arrhenius($A=(1.18e+24, 's^{-1}')$, $n=-1.94$, $E_a=(85953.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index:
160



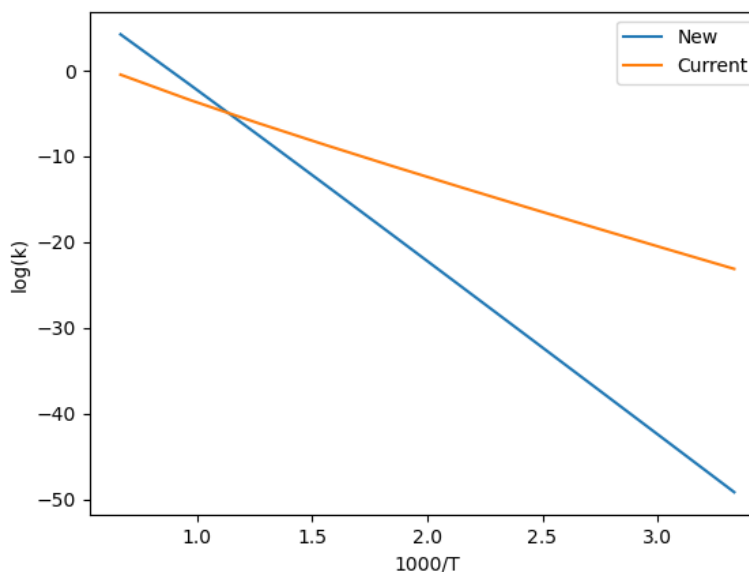
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

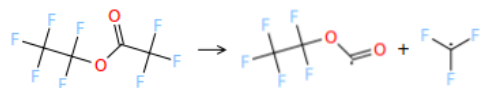
Arrhenius($A=(1.87e+24, 's^{-1}')$, $n=-1.99$, $E_a=(94065, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index:
164



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

New Kinetics:

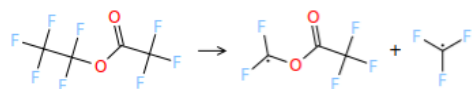
Arrhenius($A=(6.61e+24, 's^{-1}')$, $n=-2.42$, $E_a=(88881.4, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

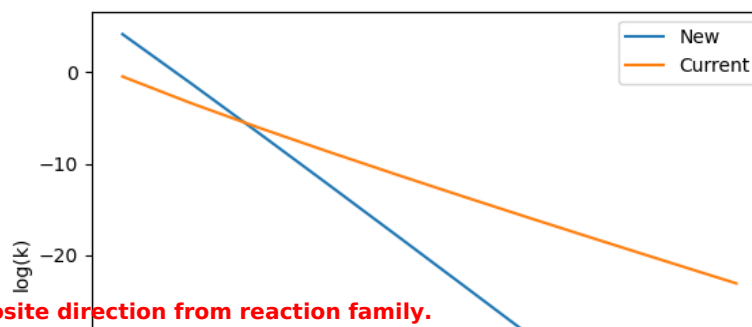
ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-$

1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
165



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

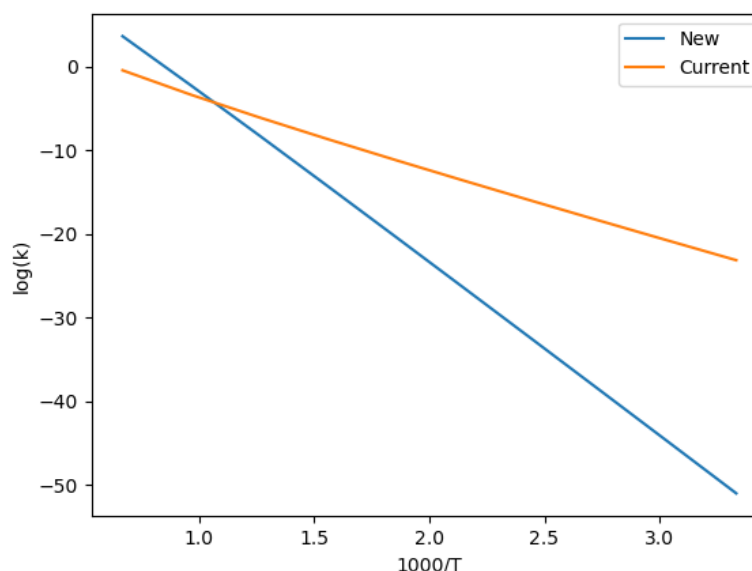


New Kinetics:

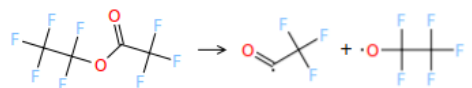
Arrhenius($A=(6.89e+25, 's^{-1}')$, $n=-2.56$, $E_a=(96716.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

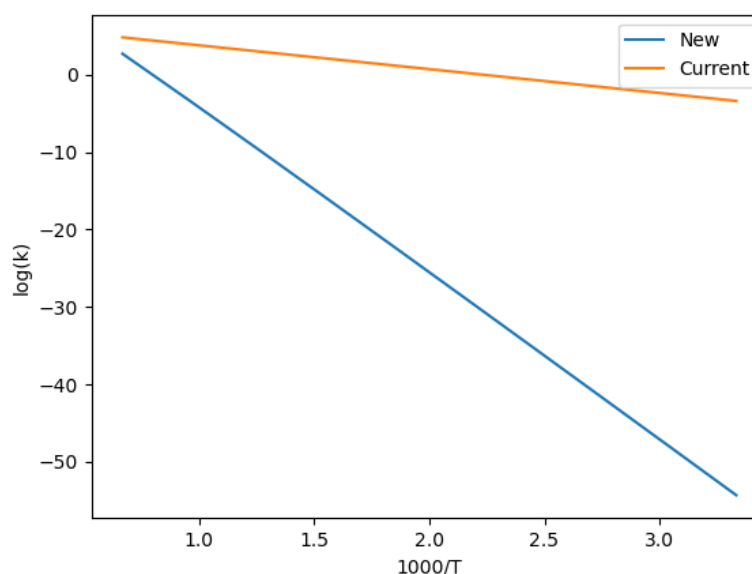
ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$,
comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:
166



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



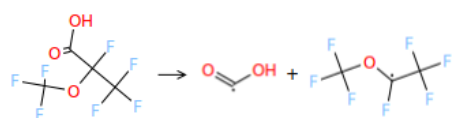
New Kinetics:

Arrhenius($A=(1.78e+24, 's^{-1}')$, $n=-2.18$, $E_a=(100406, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=-0.016021952005170214, var=0.3543710496450803, T_{ref}=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C')$,
comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C""")

index:
176



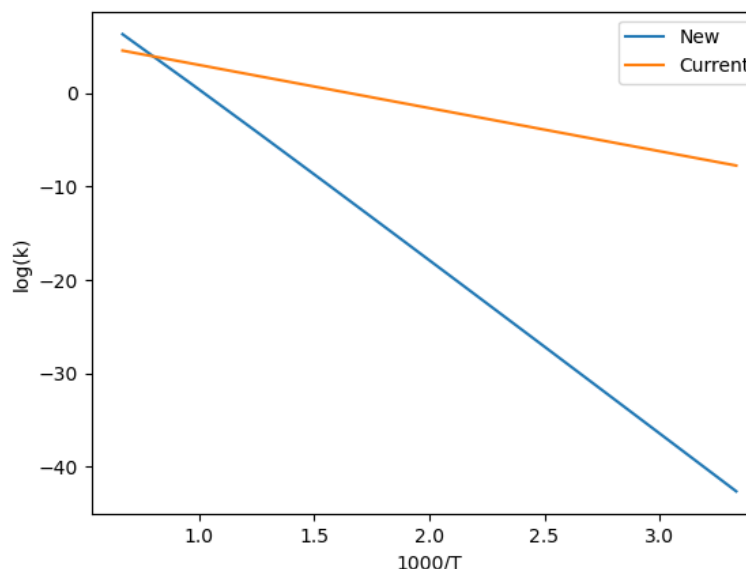
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

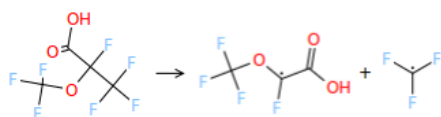
Arrhenius($A=(3.23\text{e}+25, \text{s}^{-1})$, $n=-2.09$, $E_a=(86406.5, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(4\text{e}+07, \text{m}^3/(\text{mol}\cdot\text{s}))$, $n=0$, $w_0=(173, \text{kJ/mol})$, $E_0=(88.2769, \text{kJ/mol})$, $T_{\text{min}}=(300, \text{K})$, $T_{\text{max}}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O\"\"\"}'$)



index:
177



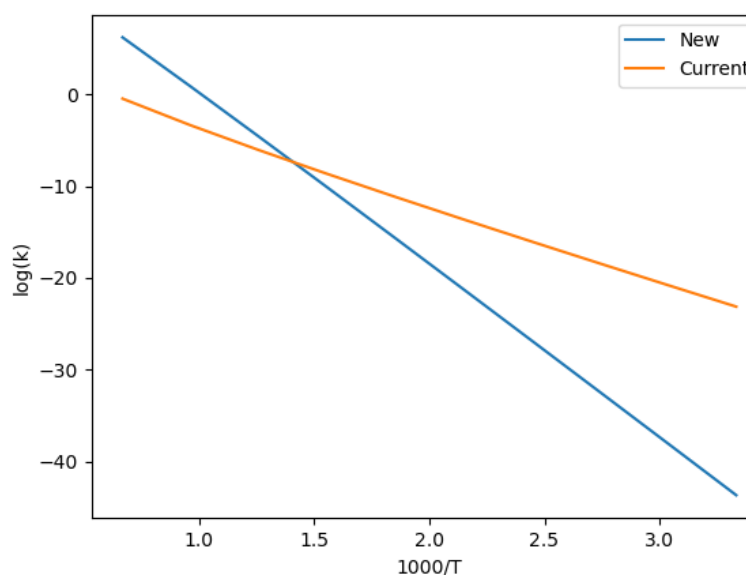
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

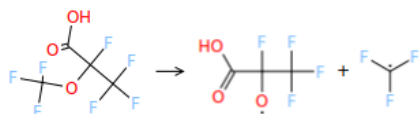
Arrhenius($A=(1.18\text{e}+26, \text{s}^{-1})$, $n=-2.2$, $E_a=(88258.3, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(2.63131\text{e}-11, \text{m}^3/(\text{mol}\cdot\text{s}))$, $n=4.71246$, $w_0=(173, \text{kJ/mol})$, $E_0=(139.101, \text{kJ/mol})$, $T_{\text{min}}=(300, \text{K})$, $T_{\text{max}}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R\"\"\"}'$)



index:
178



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

New Kinetics:

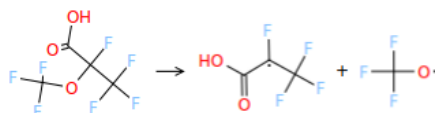
Arrhenius($A=(4.39\text{e}+24, \text{s}^{-1})$, $n=-1.94$, $E_a=$

(101346,'cal/mol'), T0=(1,'K'))

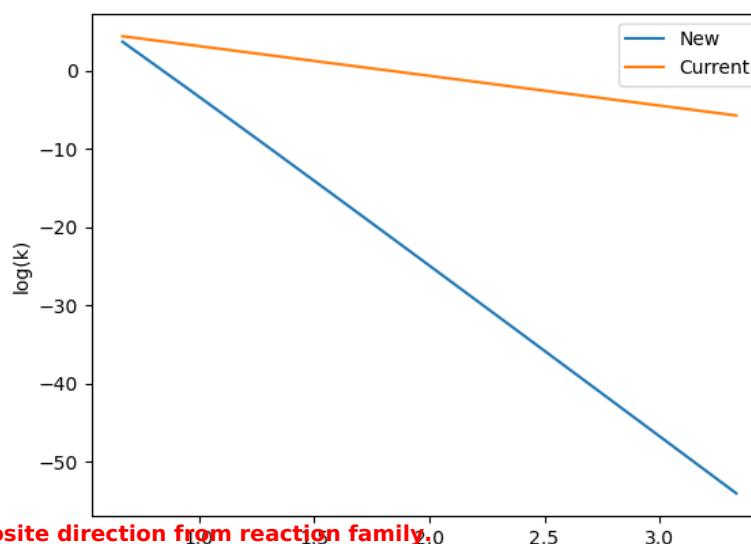
Current Kinetics

ArrheniusBM(A=(9.04e+06,'m^3/(mol*s)'), n=2.17087e-08, w0=(179,'kJ/mol'), E0=(72.7054,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")

index:
179



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



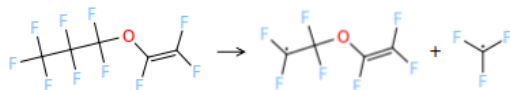
New Kinetics:

Arrhenius(A=(2.66e+25,'s^-1'), n=-2.08, Ea=(92732.9,'cal/mol'), T0=(1,'K'))

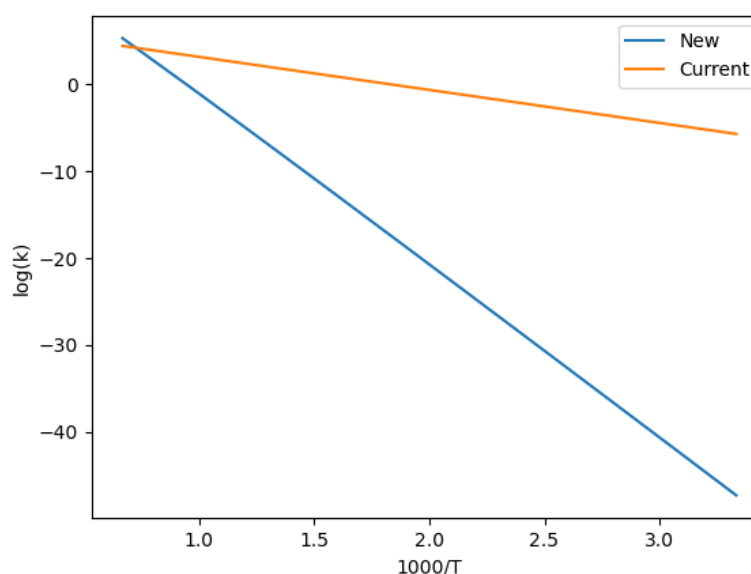
Current Kinetics

ArrheniusBM(A=(9.04e+06,'m^3/(mol*s)'), n=2.17087e-08, w0=(179,'kJ/mol'), E0=(72.7054,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")

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

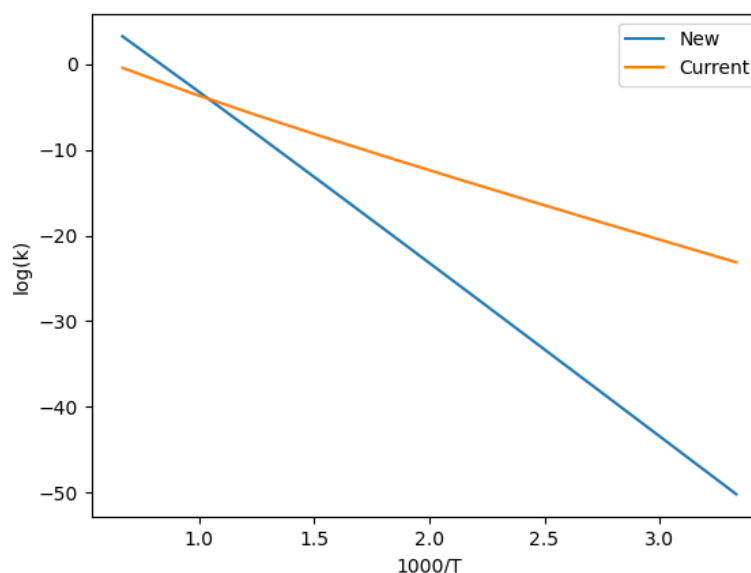


New Kinetics:

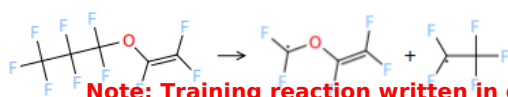
Arrhenius(A=(4.03e+23,'s^-1'), n=-2.1, Ea=(94143.9,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



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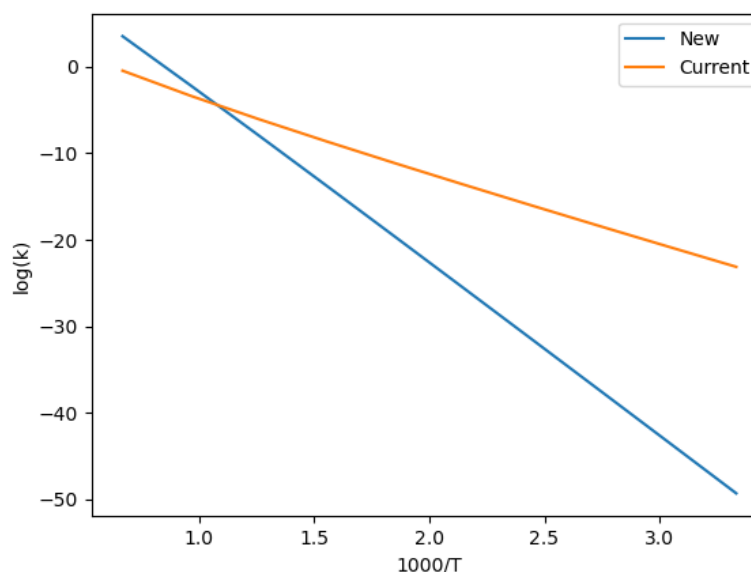
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

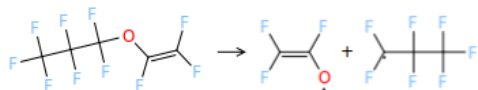
Arrhenius($A=(6.39e+23, 's^{-1}')$, $n=-2.11$, $E_a=(93175.6, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



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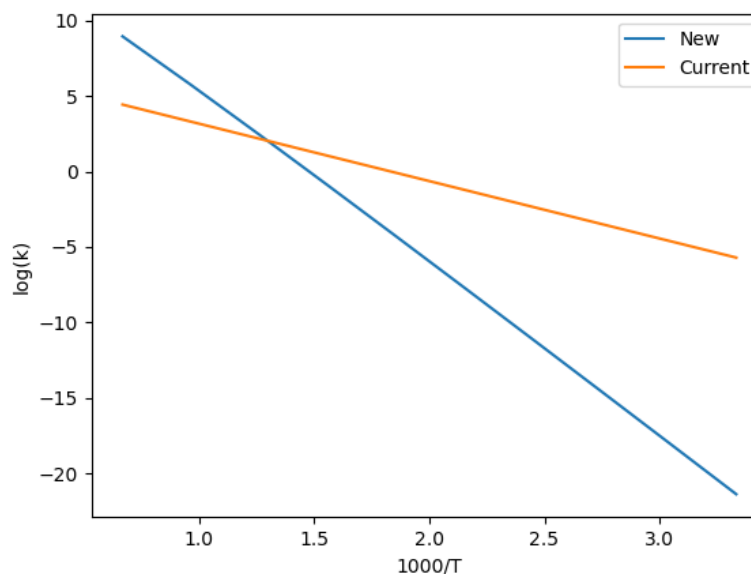
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

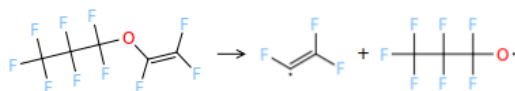
Arrhenius($A=(2.25e+23, 's^{-1}')$, $n=-2.04$, $E_a=(54440.6, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'$ """)



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

New Kinetics:

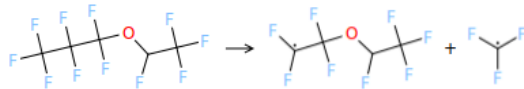
Arrhenius($A=(1.19e+22, 's^{-1}')$, $n=-1.86$, $E_a=(110777, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

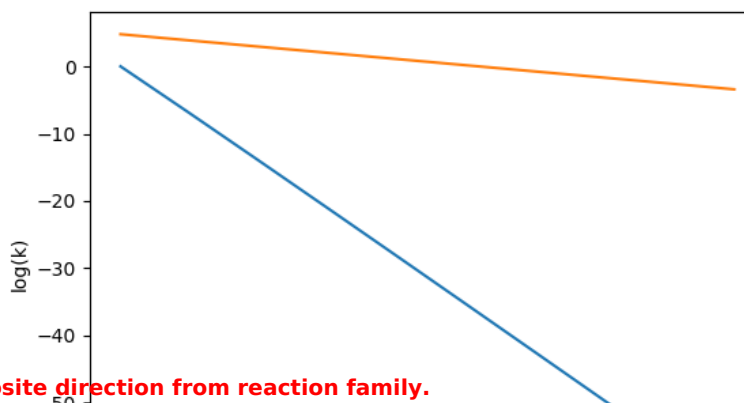
ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'$ """)

Tmin=(300,'K'), Tmax=(2000,'K'),
 uncertainty=RateUncertainty(mu=-
 0.016021952005170214, var=0.3543710496450803,
 Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-
 1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS-
 >O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-
 1O-R_N-3R!H->O_Ext-2R-R_2R->C""")

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

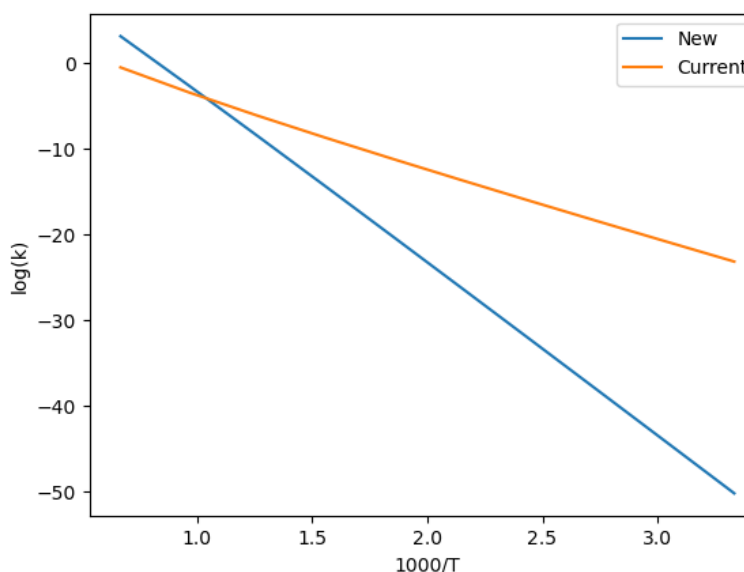


New Kinetics:

Arrhenius(A=(8.64e+23,'s^-1'), n=-2.21, Ea=
 (94232.2,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246,
 w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'),
 Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,
 var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



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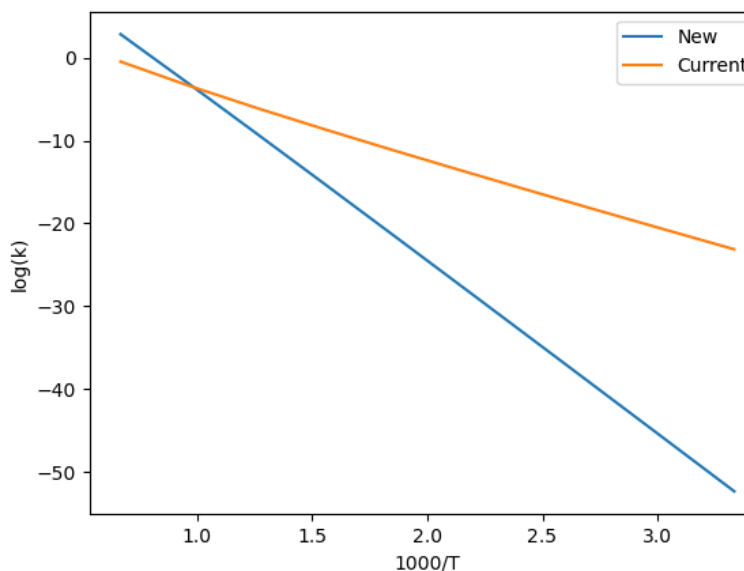
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

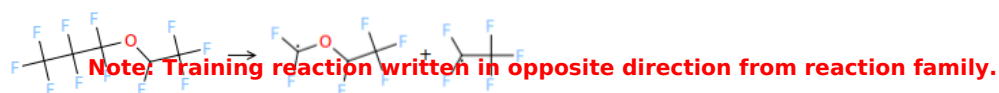
Arrhenius(A=(1.95e+23,'s^-1'), n=-1.98, Ea=
 (97110.9,'cal/mol'), T0=(1,'K'))

Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246,
 w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'),
 Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0,
 var=33.13686319048999, Tref=1000.0, N=1,
 data_mean=0.0, correlation='Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'),
 comment=""Estimated from node Root_N-1R->H_N-
 1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-
 1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-
 R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:

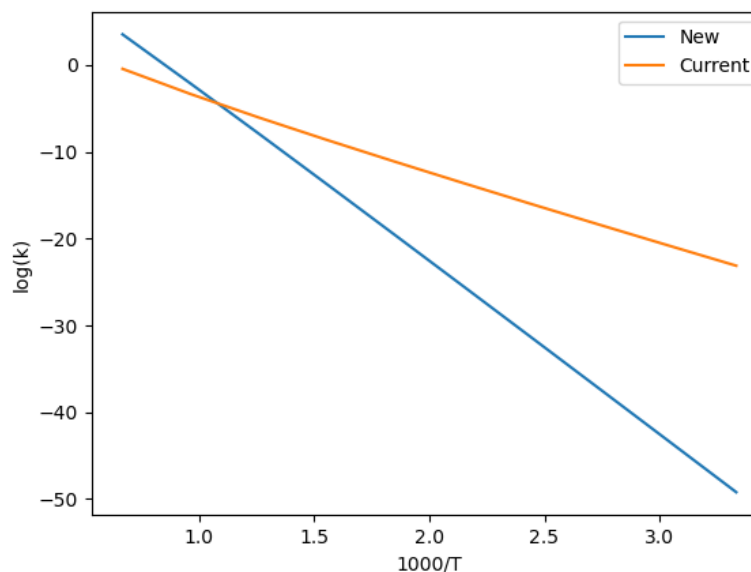


New Kinetics:

Arrhenius($A=(1.47e+24, 's^{-1}')$, $n=-2.23$, $E_a=(93133.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



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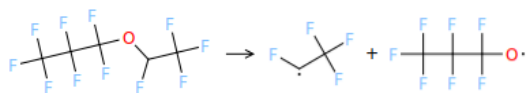
New Kinetics:

Arrhenius($A=(2.58e+22, 's^{-1}')$, $n=-1.88$, $E_a=(97794.3, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R'$ """)

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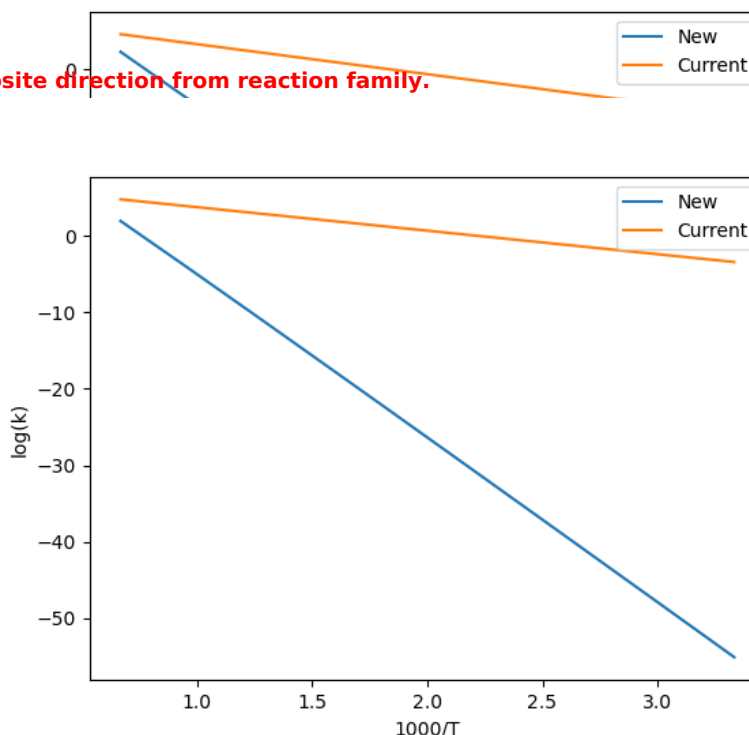
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

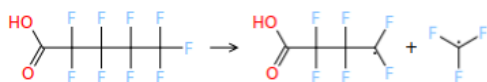
Arrhenius($A=(5.38e+21, 's^{-1}')$, $n=-1.63$, $E_a=(99985, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, T_{ref}=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'$ """)



index:
201



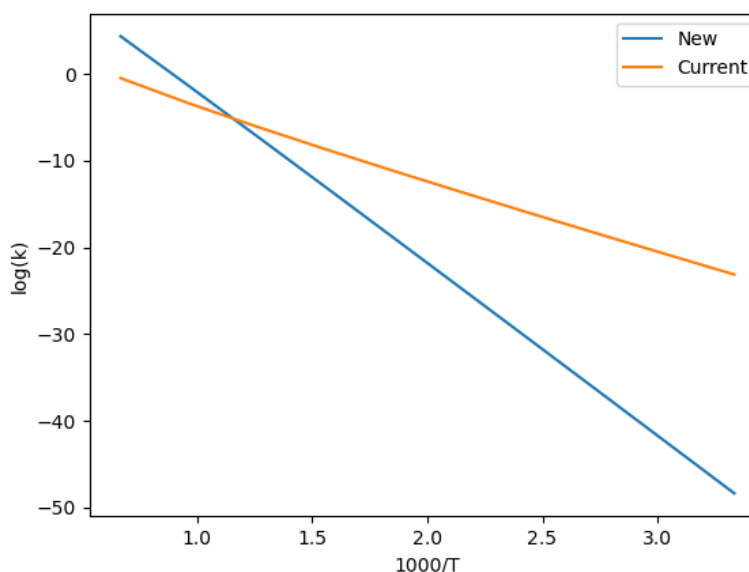
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

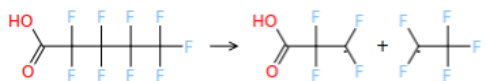
Arrhenius($A=(6.29e+22, 's^{-1}')$, $n=-1.56$, $E_a=(92402.5, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'$ """)



index:
202



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

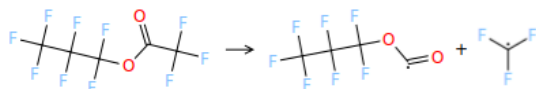
New Kinetics:

Arrhenius(A=(1.98e+22,'s^-1'), n=-1.41, Ea=(86114,'cal/mol'), T0=(1,'K'))

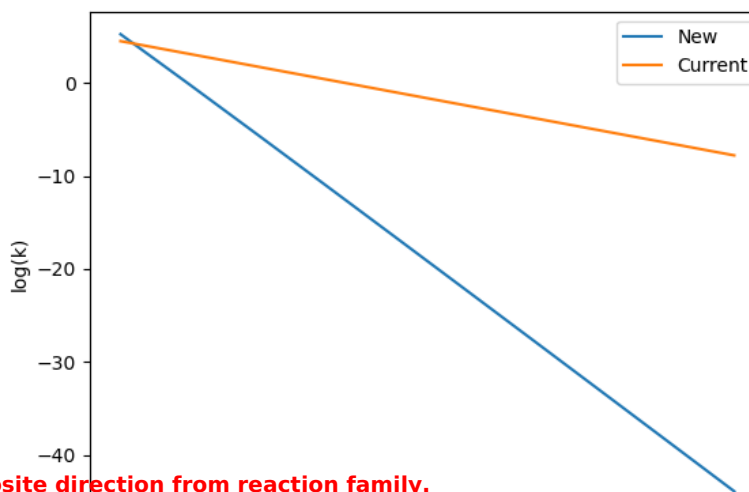
Current Kinetics

ArrheniusBM(A=(4e+07,'m^3/(mol*s)'), n=0, w0=(173,'kJ/mol'), E0=(88.2769,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O'), comment=""
Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""')

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



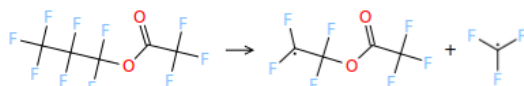
New Kinetics:

Arrhenius(A=(2.29e+23,'s^-1'), n=-2.17, Ea=(88723.3,'cal/mol'), T0=(1,'K'))

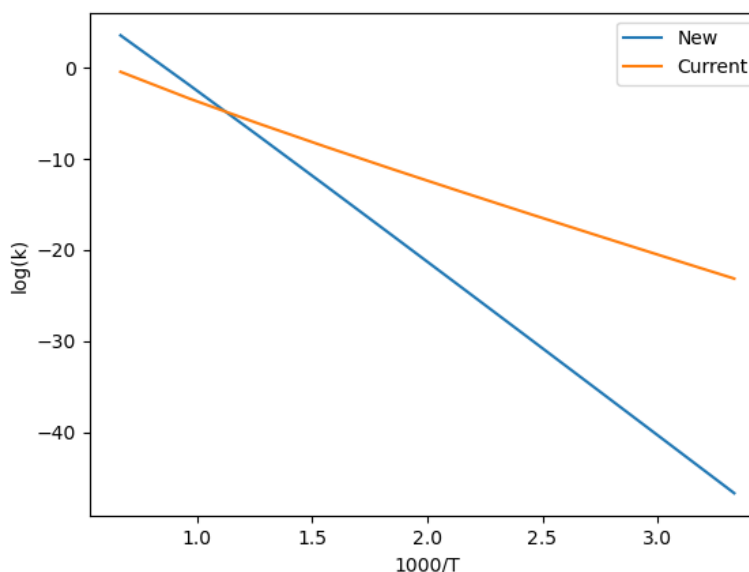
Current Kinetics

ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment=""
Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""')

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



New Kinetics:

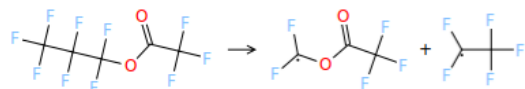
Arrhenius(A=(1.72e+24,'s^-1'), n=-2.29, Ea=(94058.5,'cal/mol'), T0=(1,'K'))

Current Kinetics

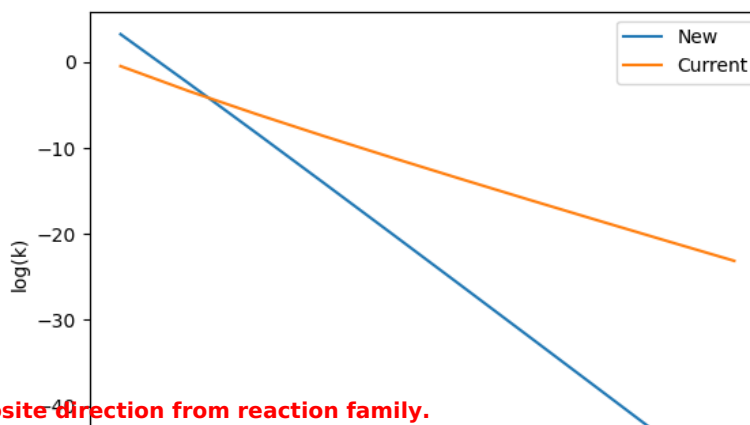
ArrheniusBM(A=(2.63131e-11,'m^3/(mol*s)'), n=4.71246, w0=(173,'kJ/mol'), E0=(139.101,'kJ/mol'), Tmin=(300,'K'), Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment=""
Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSI->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""')

Tmax=(2000,'K'), uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")

index:
209



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

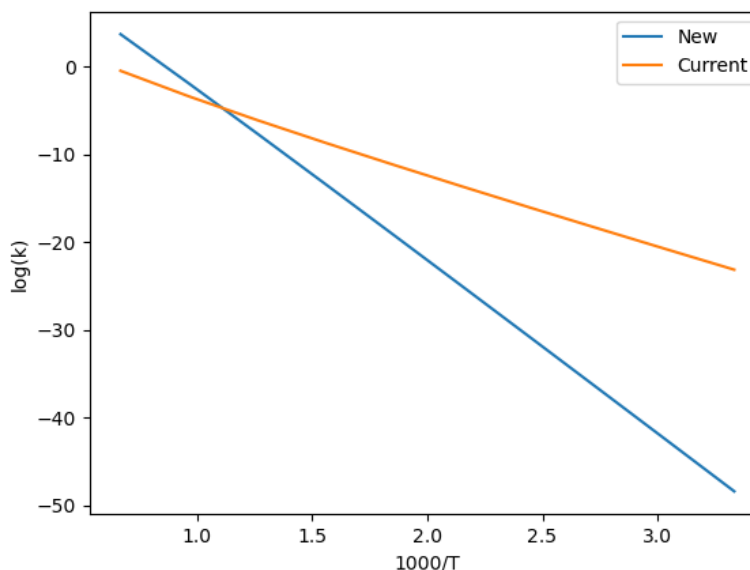


New Kinetics:

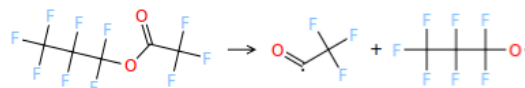
Arrhenius($A=(3.04e+24, 's^{-1}')$, $n=-2.31$, $E_a=(92177.2, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

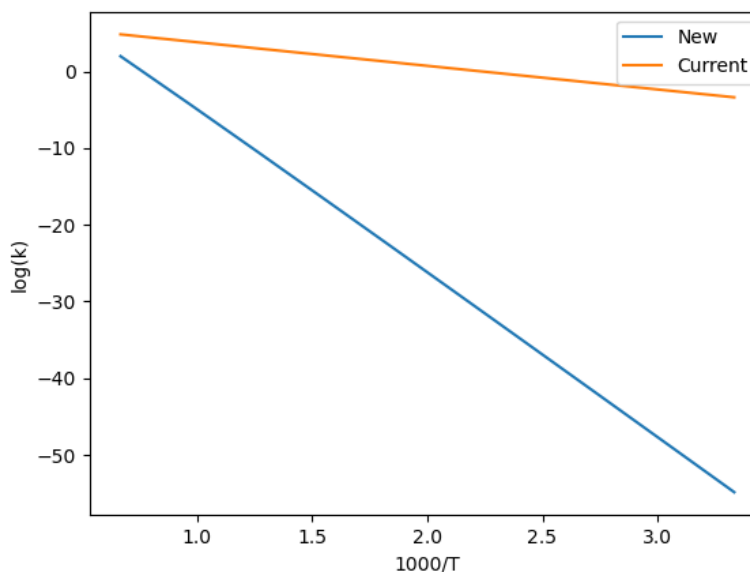
ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:
210



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



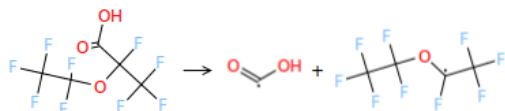
New Kinetics:

Arrhenius($A=(4.06e+22, 's^{-1}')$, $n=-1.92$, $E_a=(99819.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(7.38316e+06, 'm^3/(mol*s)')$, $n=1.31229e-07$, $w_0=(179, 'kJ/mol')$, $E_0=(58.9141, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, uncertainty=RateUncertainty(mu=-0.016021952005170214, var=0.3543710496450803, Tref=1000.0, N=2, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C'), comment="""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C""")

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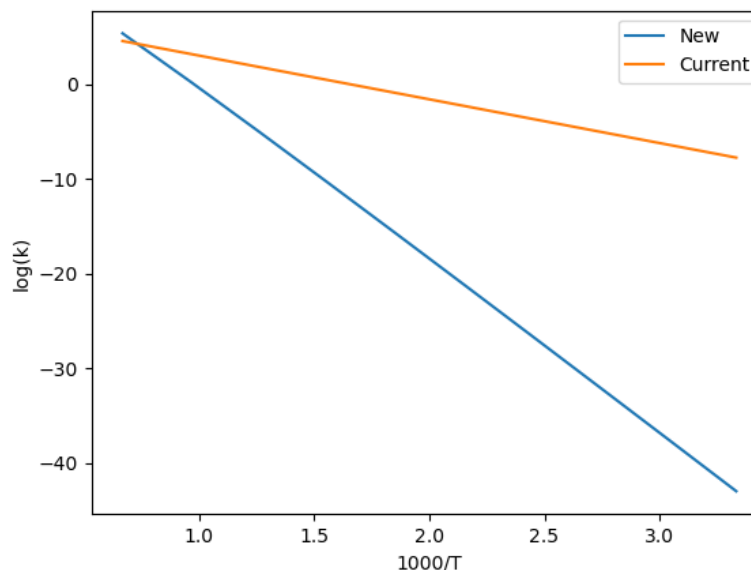
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

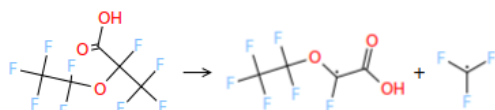
Arrhenius($A=(4.26 \times 10^{27}, \text{s}^{-1})$, $n=-3.05$, $E_a=(86516.1, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(4 \times 10^7, \text{m}^3/(\text{mol} \cdot \text{s}))$, $n=0$, $w_0=(173, \text{kJ/mol})$, $E_0=(88.2769, \text{kJ/mol})$, $T_{\min}=(300, \text{K})$, $T_{\max}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O\"\"\"}'$)



index:
220



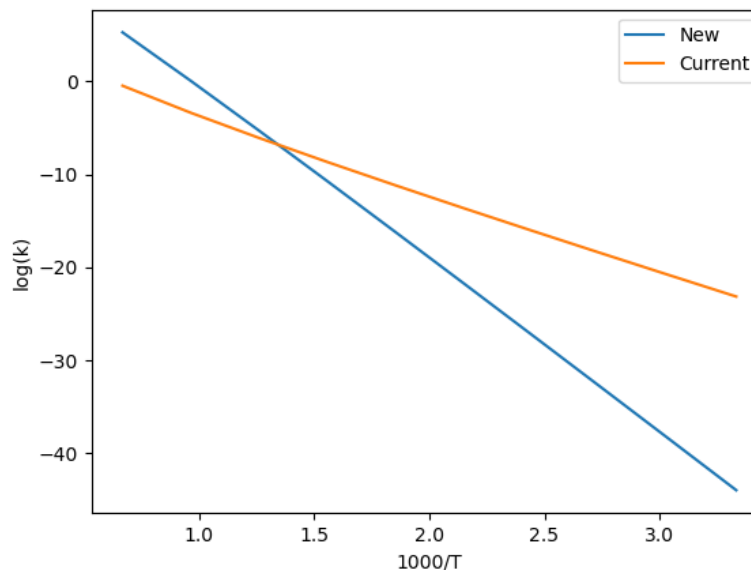
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

Arrhenius($A=(1.51 \times 10^{28}, \text{s}^{-1})$, $n=-3.16$, $E_a=(88261.4, \text{cal/mol})$, $T_0=(1, \text{K})$)

Current Kinetics

ArrheniusBM($A=(2.63131 \times 10^{-11}, \text{m}^3/(\text{mol} \cdot \text{s}))$, $n=4.71246$, $w_0=(173, \text{kJ/mol})$, $E_0=(139.101, \text{kJ/mol})$, $T_{\min}=(300, \text{K})$, $T_{\max}=(2000, \text{K})$, $\text{uncertainty}=\text{RateUncertainty}(\mu=0.0, \text{var}=33.13686319048999, T_{\text{ref}}=1000.0, N=1, \text{data_mean}=0.0, \text{correlation}=\text{'Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R'})$, $\text{comment}=\text{'\"\"\"Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R\"\"\"}'$)



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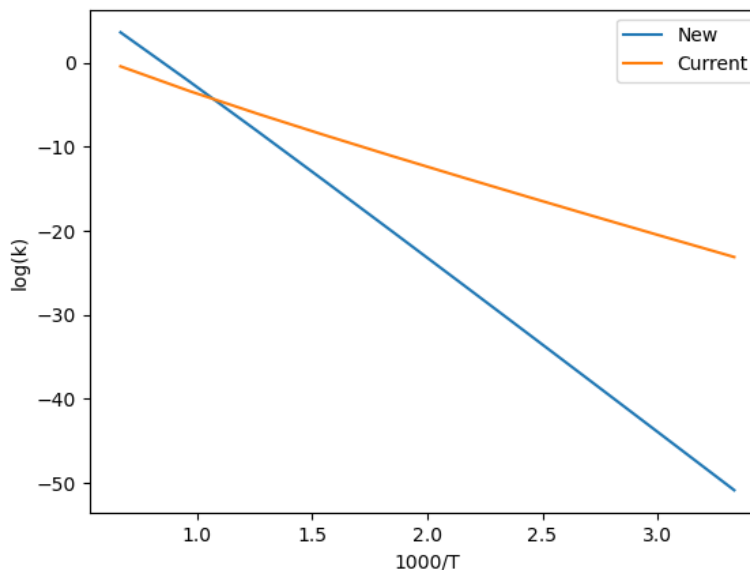
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

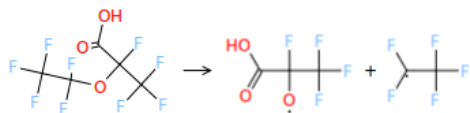
Arrhenius($A=(8.87e+27, 's^{-1}')$, $n=-3.21$, $E_a=(97239.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R$ """)



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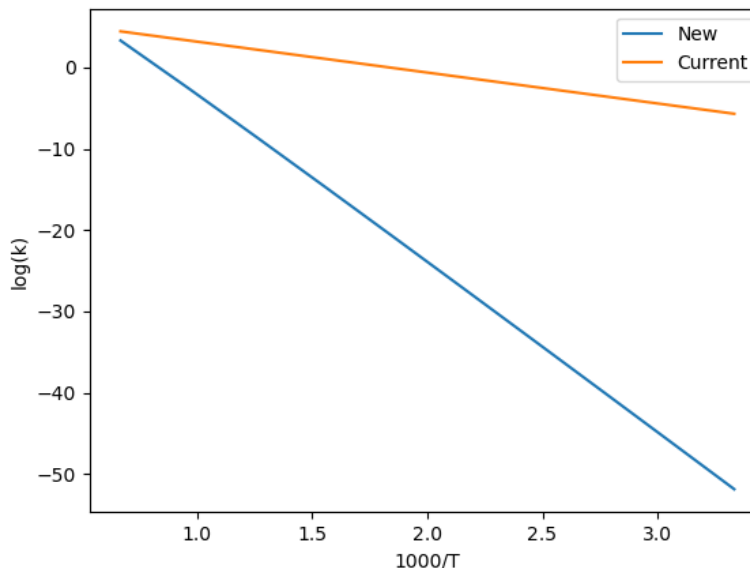
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

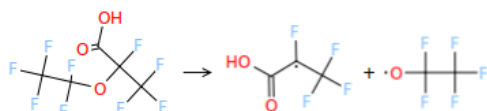
Arrhenius($A=(6.3e+26, 's^{-1}')$, $n=-2.9$, $E_a=(98101.1, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node $Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R$ """)



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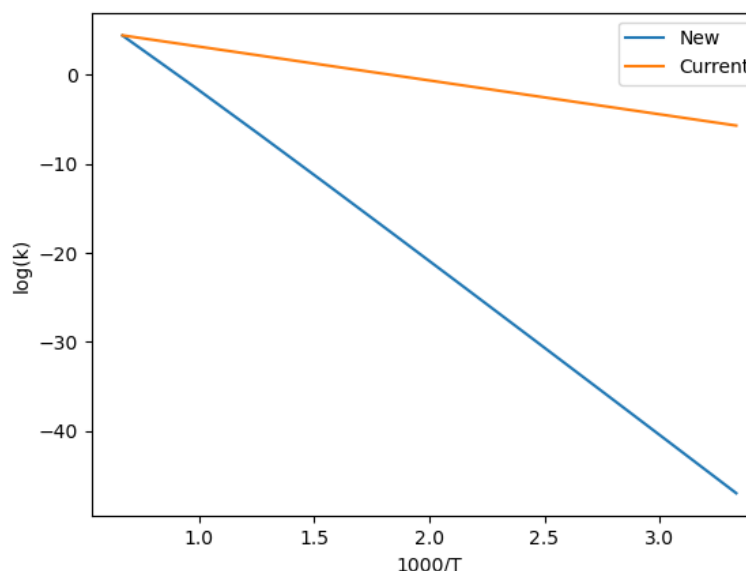
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

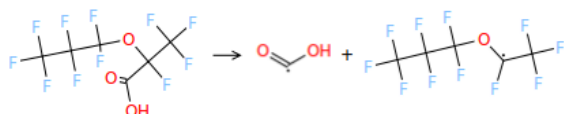
Arrhenius($A=(1.57e+27, 's^{-1}')$, $n=-2.97$, $E_a=(91728.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")



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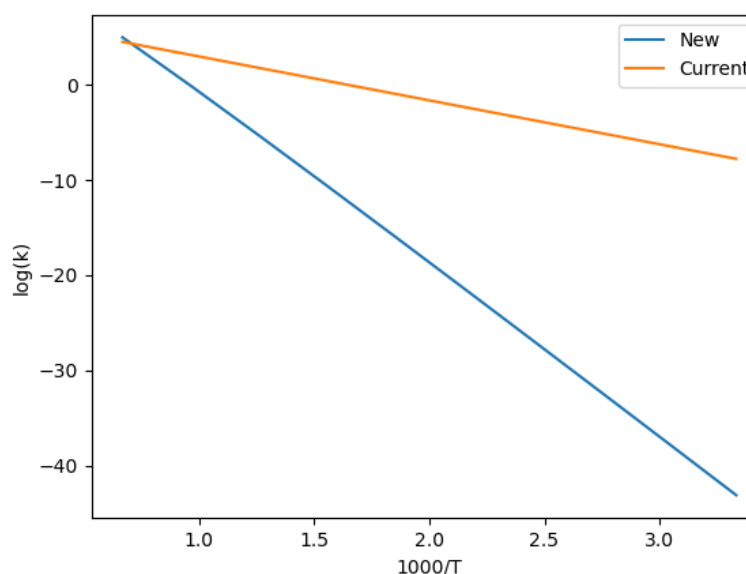
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

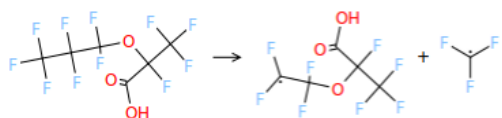
Arrhenius($A=(5.75e+27, 's^{-1}')$, $n=-3.2$, $E_a=(86426.9, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(4e+07, 'm^3/(mol*s)')$, $n=0$, $w_0=(173, 'kJ/mol')$, $E_0=(88.2769, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(\mu=0.0, var=33.13686319048999, T_{ref}=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_4R!H->O""")



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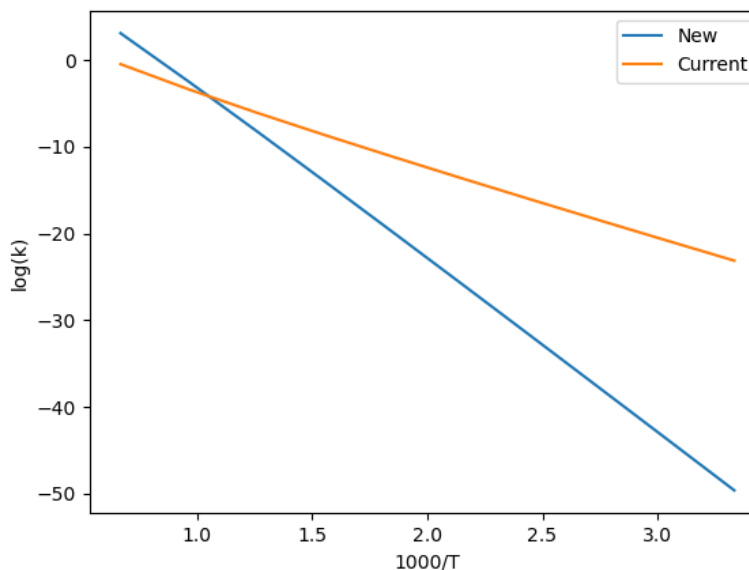
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

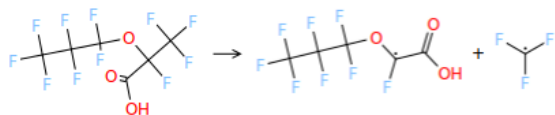
Arrhenius($A=(3.09e+27, 's^{-1}')$, $n=-3.34$, $E_a=(94502.6, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



index:
231



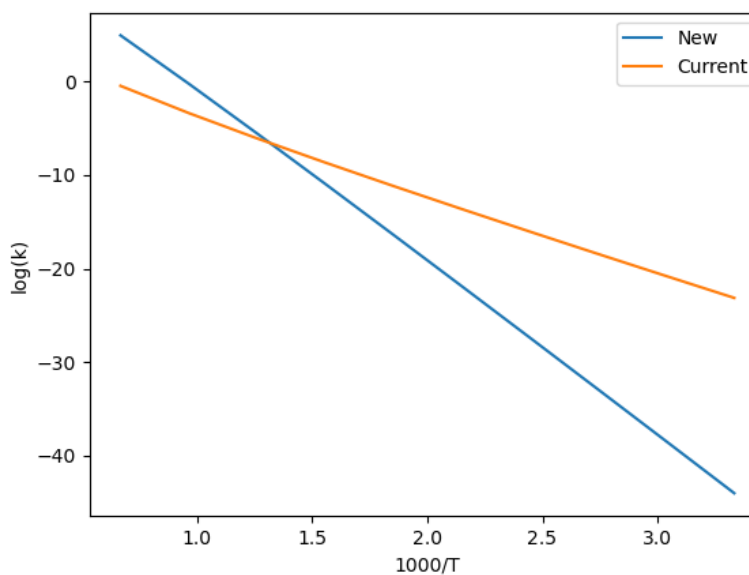
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

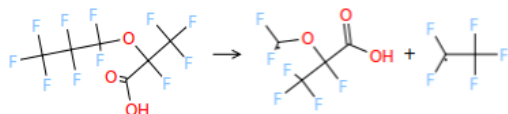
Arrhenius($A=(2.03e+28, 's^{-1}')$, $n=-3.32$, $E_a=(87974.5, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



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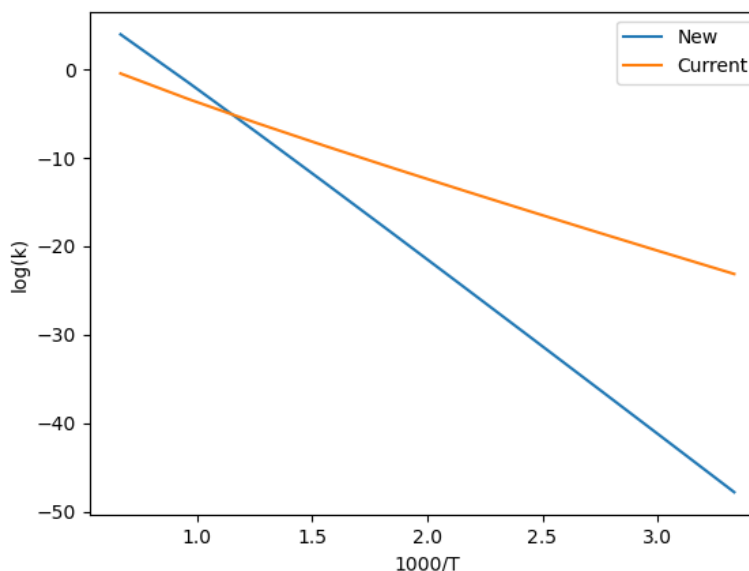
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

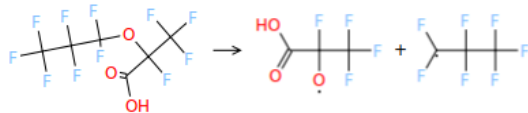
Arrhenius($A=(1.48e+28, 's^{-1}')$, $n=-3.36$, $E_a=(92858.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(2.63131e-11, 'm^3/(mol*s)')$, $n=4.71246$, $w_0=(173, 'kJ/mol')$, $E_0=(139.101, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_N-1BrCFOS->O_N-1BrCFS-inRing_1BrCFS->C_N-2R->S_N-2BrCF->Br_Ext-1C-R_3R!H->F_Ext-2CF-R_Ext-4R!H-R""")



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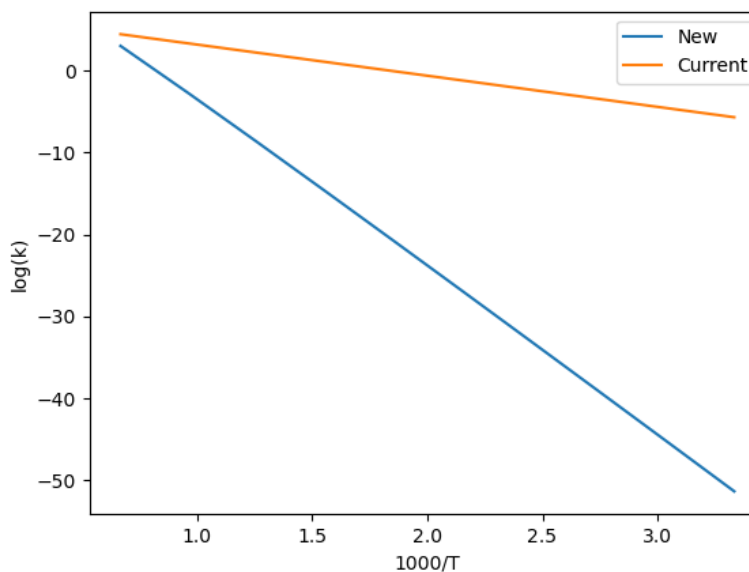
Note: Training reaction written in opposite direction from reaction family.

New Kinetics:

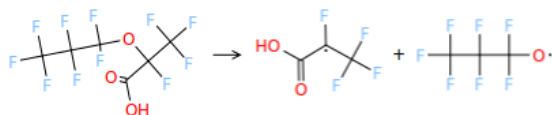
Arrhenius($A=(6.25e+26, 's^{-1}')$, $n=-3.05$, $E_a=(96873.7, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$, $uncertainty=RateUncertainty(mu=0.0, var=33.13686319048999, Tref=1000.0, N=1, data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R')$, $comment=""$ Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")



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

New Kinetics:

Arrhenius($A=(1.34e+27, 's^{-1}')$, $n=-3.12$, $E_a=(91201.3, 'cal/mol')$, $T_0=(1, 'K')$)

Current Kinetics

ArrheniusBM($A=(9.04e+06, 'm^3/(mol*s)')$, $n=2.17087e-08$, $w_0=(179, 'kJ/mol')$, $E_0=(72.7054, 'kJ/mol')$, $T_{min}=(300, 'K')$, $T_{max}=(2000, 'K')$,
uncertainty=RateUncertainty($\mu=0.0$,
var=33.13686319048999, $T_{ref}=1000.0$, $N=1$,
data_mean=0.0, correlation='Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R',),
comment=""Estimated from node Root_N-1R->H_N-1BrCCIFINOPSSi->N_N-1BrCCIFOS->Cl_1BrCFOS->O_Ext-1O-R_N-3R!H->O_Ext-2R-R_2R->C_Ext-2C-R_Ext-2C-R""")

