

```
subroutine setChemRates ()
```

```
    rct (1, :) = ((5.681e-34*EXP (-2.6* (LOG (TEMP/300) ))) *O2) *M
```

```
    rct (2, :) = (1.8e-11*EXP (107.0*TINV) ) *N2
```

```
....
```

```
    rct (65, :) = KAERO (RH)
```

```
    rct (66, :) = (IUPAC_TROE (1.0e-31*EXP (1.6*LOG300DIVT) ,    &
```

```
        & 3.0e-11*EXP (-0.3*LOG300DIVT) ,    &
```

```
        & 0.85 ,    &
```

```
        & M ,    &
```

```
        & 0.75-1.27*LOG10 (0.85) ) )
```

```
....
```