

maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

| | tC | FERM | W | RESP | ADPS | EAA | ENT | RNAp | DNAp | r |
|-----|----|------|----|--------|------|-----|--------|------|------|------|
| С | 1 | -0.2 | 0 | -0.019 | 0 | -1 | -0.167 | Ō | Ō | 0 |
| I | 0 | 0 | -1 | 0.019 | 0 | 0 | 0 | 0 | 0 | 0 |
| AA | 0 | 0 | 0 | 0 | 0 | 1 | -0.167 | 0 | 0 | -0.2 |
| NT | 0 | 0 | 0 | 0 | -1 | 0 | 0.334 | -1 | -1 | 0 |
| ADP | 0 | -0.8 | 0 | -0.981 | 1 | 0 | 0.666 | 0 | 0 | 8.0 |
| ATP | 0 | 0.8 | 0 | 0.981 | 0 | 0 | -0.666 | 0 | 0 | -0.8 |
| RNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| DNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| р | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 |

| | tC | FERM | W | RESP | ADPS | EAA | ENT | RNAp | DNAp | r |
|-------|-----|------|----|------|------|-----|-----|------|------|---|
| x_C | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| x_W | 0 | 10 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| С | 28 | 10 | 0 | 5 | 0 | 10 | 10 | 0 | 0 | 0 |
| | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AA | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| NT | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| ADP | 0 | 1 | 0 | 0.5 | 1 | 0 | 1 | 0 | 0 | 0 |
| ATP | 0 | 1 | 0 | 0.5 | 0 | 0 | 1 | 0 | 0 | 1 |
| RNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| р | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

KA

| | tC | FERM | W | RESP | ADPS | EAA | ENT | RNAp | DNAp | r |
|-----|----|------|---|------|------|-----|-----|------|------|----|
| x_C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| x_W | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| С | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ADP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ATP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| DNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 0 |
| р | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

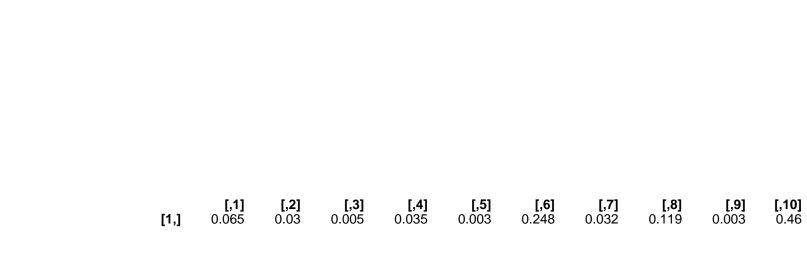
kcat

| | tC | FERM | W | RESP | ADPS | EAA | ENT | RNAp | DNAp | r |
|-------|----|------|----|------|------|-----|-----|------|------|----|
| kcatf | 29 | 801 | 10 | 267 | 2 | 7 | 129 | 6 | 13 | 19 |
| kcatb | 3 | 80 | 1 | 27 | 1 | 1 | 13 | 0 | 0 | 0 |

Keq

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] | [,7] | [,8] | [,9] | [,10] |
|------|-----------------|---------|------|----------------|------|------|-------------------|------|------|-------|
| [1,] | 2706.6666666667 | 10.0125 | 20 | 1.977777777778 | 2 | 0.7 | 0.992307692307692 | Inf | Inf | Inf |

phi input



average saturation input

minimal phi constraint

[1,]

minimal f constraint

[1,]

[,10] 0