

maintenance\_fun constant

keep\_ribosome\_kcat FALSE keep\_transport\_kcat FALSE

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0
-0.9
0
-0.1
0
0
1

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	tC	<b>ATPS</b>	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0
$x_W$	0	0	0	0	0	0	0
С	0	11	11	11	0	0	0
AA	0	0	0	0	0	0	2
NT	0	0	0	0	1	1	0
ATP	0	0	0	0	0	0	2
RNA	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0

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	tC	ATPS	EAA	ENT	RNAp	DNAp	r
x_C	0	0	0	0	Ō	Ō	0
$x_W$	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	25
DNA	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0

#### kcat

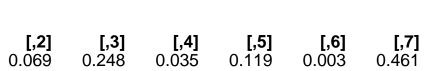
	tC	<b>ATPS</b>	EAA	<b>ENT</b>	RNAp	DNAp	ı
kcatf	32	3.4	5.5	24.3	6.6	8.8	4.4
kcatb	0	0	0	0	0	0	(

#### Keq

# phi input

**[,1]** 0.065

[1,]



#### average saturation input

## minimal phi constraint

### minimal f constraint