

	tC	<b>ATPS</b>	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
С	1	-0.02	0	-1	-0.167	-0.18	0	Ō	0	0
AA	0	0	0	1	-0.167	0	0	0	0	-0.2
NT	0	0	-1	0	0.334	0	0	-1	-1	0
ADP	0	-0.98	1	0	0.666	0.82	1	0	0	0.8
ATP	0	0.98	0	0	-0.666	-0.82	-1	0	0	-0.8
LIP	0	0	0	0	0	0.18	0	0	0	0
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

K

	tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0	0
$x_W$	0	20	0	0	0	0	0	0	0	0
С	26	9	0	9	9	9	0	0	0	0
AA	0	0	0	7	3	0	0	0	0	3
NT	0	0	3	0	7	0	0	3	3	0
ADP	0	1	1	0	1	1	0	0	0	0
ATP	0	7	0	0	3	3	3	0	0	3
LIP	0	0	0	0	0	35	0	0	0	0
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

	tC	ATPS	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
x_C	0	0	0	0	0	0	0.005	Ō	Ō	0
$x_W$	0	0	0	0	0	0	0	0	0	0
С	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
LIP	30	0	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	0	0	50
DNA	0	0	0	0	0	0	0	5	5	0
р	0	0	0	0	0	0	0	0	0	0

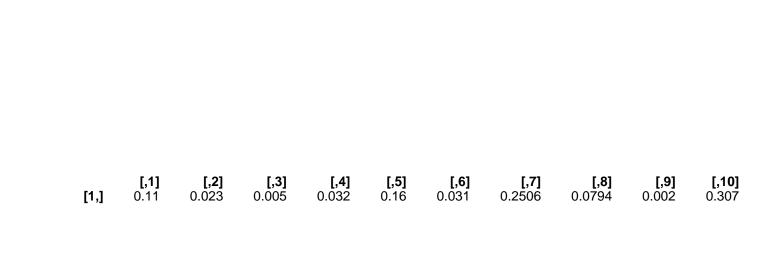
#### kcat

	tC	<b>ATPS</b>	ADPS	EAA	ENT	LIPS	Maint	RNAp	DNAp	r
kcatf	20	903	11	53	20	58	77	6	15	29
kcatb	2	90	1	5	2	6	0	0	0	0

### Keq

[1,]	<b>[,1]</b>	<b>[,2]</b>	<b>[,3]</b>	<b>[,4]</b>	<b>[,5]</b>	<b>[,6]</b>	<b>[,7]</b>	<b>[,8]</b>	<b>[,9]</b>	<b>[,10]</b>
	2600	156.074074074074	3.66666666666667	8.24444444444444	0.864197530864197	12.5308641975309	Inf	Inf	Inf	Inf

# phi input



## average saturation input

## minimal phi constraint

[1,]

#### minimal f constraint

[1,]

**[,10]** 0