

## PK\_1999

### 1 “global\_variables” component

This component has no equations.

### 2 “E” component

$$\frac{d(E)}{d(time)} = (delta\_E\_rxn5 + delta\_E\_rxn0 + delta\_E\_rxn1 + delta\_E\_rxn4)$$

### 3 “A” component

$$\frac{d(A)}{d(time)} = (delta\_A\_rxn0 + delta\_A\_rxn3)$$

### 4 “EA” component

$$\frac{d(EA)}{d(time)} = (delta\_EA\_rxn0 + delta\_EA\_rxn2)$$

### 5 “B” component

$$\frac{d(B)}{d(time)} = (delta\_B\_rxn1 + delta\_B\_rxn2)$$

## 6 “EB” component

$$\frac{d(EB)}{d(time)} = (delta\_EB\_rxn1 + delta\_EB\_rxn3)$$

## 7 “EAB” component

$$\frac{d(EAB)}{d(time)} = (delta\_EAB\_rxn2 + delta\_EAB\_rxn3 + delta\_EAB\_rxn7)$$

## 8 “Q” component

$$\frac{d(Q)}{d(time)} = (delta\_Q\_rxn4 + delta\_Q\_rxn6)$$

## 9 “EQ” component

$$\frac{d(EQ)}{d(time)} = (delta\_EQ\_rxn4 + delta\_EQ\_rxn8)$$

## 10 “P” component

$$\frac{d(P)}{d(time)} = (delta\_P\_rxn5 + delta\_P\_rxn8)$$

## 11 “EP” component

$$\frac{d(EP)}{d(time)} = (delta\_EP\_rxn6 + delta\_EP\_rxn5)$$

## 12 “EPQ” component

$$\frac{d(EPQ)}{d(time)} = (delta\_EPQ\_rxn7 + delta\_EPQ\_rxn6 + delta\_EPQ\_rxn8)$$

### **13 “reaction0” component**

This component has no equations.

### **14 “reaction1” component**

This component has no equations.

### **15 “reaction2” component**

This component has no equations.

### **16 “reaction3” component**

This component has no equations.

### **17 “reaction4” component**

This component has no equations.

### **18 “reaction5” component**

This component has no equations.

### **19 “reaction6” component**

This component has no equations.

### **20 “reaction7” component**

This component has no equations.

### **21 “reaction8” component**

This component has no equations.