

# triacylglycerol\_synthesis\_model

## 1 “global\_variables” component

This component has no equations.

## 2 “Glycerol\_3\_phosphate” component

$$\frac{d(\textit{Glycerol\_3\_phosphate})}{d(\textit{time})} = \textit{delta\_Glycerol\_3\_phosphate\_rxn0}$$

## 3 “Lysophosphatidate” component

$$\frac{d(\textit{Lysophosphatidate})}{d(\textit{time})} = (\textit{delta\_Lysophosphatidate\_rxn0} + \textit{delta\_Lysophosphatidate\_rxn1})$$

## 4 “Phosphatidate” component

$$\frac{d(\textit{Phosphatidate})}{d(\textit{time})} = (\textit{delta\_Phosphatidate\_rxn1} + \textit{delta\_Phosphatidate\_rxn2})$$

## 5 “Diacylglycerol” component

$$\frac{d(\textit{Diacylglycerol})}{d(\textit{time})} = (\textit{delta\_Diacylglycerol\_rxn2} + \textit{delta\_Diacylglycerol\_rxn3})$$

## 6 “fatty\_acid” component

$$\frac{d(\text{fatty\_acid})}{d(\text{time})} = (\text{delta\_fatty\_acid\_rxn0} + \text{delta\_fatty\_acid\_rxn1} + \text{delta\_fatty\_acid\_rxn3})$$

## 7 “CoA\_SH” component

$$\frac{d(\text{CoA\_SH})}{d(\text{time})} = (\text{delta\_CoA\_SH\_rxn0} + \text{delta\_CoA\_SH\_rxn1} + \text{delta\_CoA\_SH\_rxn3})$$

## 8 “H2O” component

$$\frac{d(\text{H2O})}{d(\text{time})} = \text{delta\_H2O\_rxn2}$$

## 9 “Pi” component

$$\frac{d(\text{Pi})}{d(\text{time})} = \text{delta\_Pi\_rxn2}$$

## 10 “Triacylglycerol” component

$$\frac{d(\text{Triacylglycerol})}{d(\text{time})} = \text{delta\_Triacylglycerol\_rxn3}$$

## 11 “Glycerol\_phosphate\_1\_O\_acyltransferase” component

This component has no equations.

## 12 “Glycerol\_phosphate\_2\_O\_acyltransferase” component

This component has no equations.

### **13 “Phosphatidate\_phosphohydrolase” component**

This component has no equations.

### **14 “Diacylglycerol\_acyltransferase” component**

This component has no equations.

### **15 “reaction0” component**

This component has no equations.

### **16 “reaction1” component**

This component has no equations.

### **17 “reaction2” component**

This component has no equations.

### **18 “reaction3” component**

This component has no equations.