Table 6 introduces the metabolites in the *E. coli* glycolysis pathway compiled in this work, together with public database identifiers, size and concentration. The radius of metabolites (R_{vdW}) can be approximated by a calculation method for the van der Waals volume (V_{vdW}) (Equation 3) [47]:

$$V_{vdW} = \left(\sum_{i}^{\text{atom nr}} VvdW_i\right) - 5.92N_B - 14.7R_A - 3.8R_{NR}, \quad (3)$$

which accounts for the van der Waals volume for each atom ($VvdW_i$), the number of bonds (N_B), the number of aromatic rings (R_A) and the number of non-aromatic rings (R_{NR}) in the molecule. Each radius can then be calculated using the geometric relation $VvdW = \frac{4}{3}\Pi.R_{vdW}$. Data on the molecular structure of the metabolites can be automatically retrieved from chemical databases, such as PubChem [18] and CheBI [19].