TABLE III

FREE ENERGIES OF FORMATION FROM THE ELEMENTS OF METABOLITES

Compound	*$\Delta G'$ formation (1 M aq., kcal)*	*$\Delta\Delta G$ (from Table I) (kcal)*	*ΔG^s formation conc. under exptl. conds. (kcal)*
P_i^{2-} ($-H_2O$)	P	−4.1	P − 4.1
α-D-Glucose	−219.22	(−4.1)	(−223.2)
Glc-6-P^{2-} (in light)	P−215.93	−4.3	P−220.2
Glc-6-P^{2-} (in dark)	P−215.93	−4.7	P−220.7
Fru-6-P^{2-}	P−215.43	−4.5	P−219.9
Fru-1,6-P_2^{4-}	2P−211.99	−5.5	2P−217.5
Dihydroxyacetone-P^{2-}	P−104.28	−4.4	P−108.6
Glyceraldehyde-3-P^{2-}	P−102.46	−6.0	−108.5
Glycerol	−116.76		
α-Glycerol-P^{2-}	P−114.36		
3-*P*-Glycerate^{3-}	P−157.46	−3.9	P−161.4
2-*P*-Glycerate^{3-}	P−156.06		
P-Enolpyruvate^{3-}	P−100.20		
Pyruvate$^-$	−113.44		
Ery-4-P^{2-}	P−139.14	−6.4	P−145.6
Sed-7-P^{2-}	P−252.49	−4.9	P−257.4
Sed-1,7-P_2^{4-}	2P−249.05	−5.4	P−254.4
Rib-5-P^{2-}	P−177.58	−6.1	P−183.7
Ribul-5-P^{2-}	P−177.04	−6.70	P−183.7
Ribul-1,5-P_2^{4-}	2P−174.64	−3.7	2P−178.3
Xyl-5-P^{2-}	P−177.28	−6.4	P−183.7
6-*P*-Gluconate^{3-} (in dark)	P−267.41	−5.9	P−273.3
CO_2	− 94.26	−4.6	− 98.9
H_2O	− 56.69	0	− 56.7
H^+	− 9.55	−1.0	− 10.5

Abbreviations: see Table I.