TABLE 16.3	Reactions of	glycolysis
-------------------	--------------	------------

Reactions of grycolysis		TOWNSDA 30 HEAT AND THE PERSON	
Step	Reaction	$\Delta G^{\circ\prime}$ in kcal mol ⁻¹ (kJ mol ⁻¹)	ΔG in keal mol ⁻¹ (kJ mol ⁻¹)
1	Glucose + ATP \longrightarrow glucose 6-phosphate + ADP + H ⁺	-4.0 (-16.7)	-8.0 (-33.5)
2	Glucose 6-phosphate ⇒ fructose 6-phosphate	+0.4 (+1.7)	-0.6(-2.5)
3	Fructose 6-phosphate + ATP →	-3.4 (-14.2)	-5.3(-22.2)
	fructose 1,6-bisphosphate + ADP + H ⁺	shown) lacrate d	
4	Fructose 1,6-bisphosphate \(\infty \) dihydroxyacetone phosphate + glyceraldehyde 3-phosphate	+5.7 (+23.8)	-0.3 (-1.3)
5	Dihydroxyacetone phosphate	+1.8 (+7.5)	+0.6(+2.5)
6	Glyceraldehyde 3-phosphate $+P_i + NAD^+ \Longrightarrow 1,3$ -bisphosphoglycerate $+ NADH + H^+$	+1.5 (+6.3)	-0.4 (-1.7)
7	1,3-Bisphosphoglycerate + ADP ⇒ 3-phosphoglycerate + ATP	-4.5 (-18.8)	+0.3 (+1.3)
8	3-Phosphoglycerate ⇒ 2-phosphoglycerate	+1.1 (+4.6)	+0.2 (+0.8)
9	2-Phosphoglycerate ⇒ phosphoenolpyruvate +H ₂ O	+0.4 (+1.7)	-0.8(-3.3)
10	Phosphoenolpyruvate + $ADP + H^+ \longrightarrow pyruvate + ATP$	-7.5(-31.4)	-4.0(-16.7)

HOAM to nedgmizened bits notision