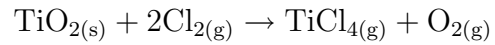


Chemistry 2720 Fall 2005 Quiz 3

Name: _____

Marks for this quiz: 10

What is the entropy change for the reaction



at 90°C? (None of the species involved undergo a phase change between 25 and 90°C.)

To convert degrees Celsius to Kelvin, add 273.15.

Species	\bar{S}° JK ⁻¹ mol ⁻¹	\bar{C}_P° JK ⁻¹ mol ⁻¹
Cl _{2(g)}	223.081	33.91
O _{2(g)}	205.152	29.35
TiCl _{4(g)}	353.2	95.4
TiO _{2(s)}	50.62	55.18