EES Ver. 8.634: #099

Fuel [Ethanol] C_2 H_6 O_1 [Constant Volume] [Fuel-Air Equivalence Ratio]

Enthalpy of Formation -235100 [kJ/kmol]
Fuel Specific Heat 65.42 [kJ/kmol-K]

Air / Fuel Ratio 8.993
Fuel / Air Ratio 0.1112
A/F Equivalence Ratio 1
F/A Equivalence Ratio [1]

Reactant Temperature [298] [K]
Reactant Pressure [500] [kPa]

Calculate
Help

Adiabatic Flame Temperature 2534 [K]
Final Pressure 5090 [kPa]

Product Mole Fractions

CO	9.853E-03	H_2O	1.599E-01	NO	3.296E-03	OH	2.859E-03
CO_2	9.949E-02	CH_4	7.121E-15	NO_2	2.462E-06	Ar	0.000E+00
H	2.079E-04	N	4.765E-08	O	1.483E-04		
H_2	2.567E-03	N_2	7.178E-01	O_2	3.825E-03		