

Define reactants and species to be considered

Reactants

Natural Gas + Air

Products

List of Species

CO2
CO
H2O
H2
O2

% Fuel 5.629

O/F 16.76

Phi 1

Species	N° moles	Mole fraction	Type	Temperature [K]
N2	8.6524	0.7239	Oxidizer	300
O2	2.3000	0.1924	Oxidizer	300
CH4	0.8500	0.0711	Fuel	300
C2H6	0.1000	0.0084	Fuel	300
C3H8	0.0500	0.0042	Fuel	300

Select Problem Type

HP: Adiabatic T and composition at constant P

☐ Frozen chemistry

Define state of reactants and products

Reactants

300

Temperature [K]

1

Pressure [bar]

Products

1

Additional constraints

Products

Constant Enthalpy: $h_P = h_R$

Calculate

Clear

Welcome to Combustion Toolbox v0.9.9 --- A MATLAB-GUI based open-source tool for solving combustion problems.