File Examples Help

Setup	Inputs	Extended settings

Results

Define reactants and species to be considered

Reactants

Natural Gas + Air	▼

Products

Soot formation	▼

List of Species

CO2
CO
H2O
H2

% Fuel   8.367

O/F   2.3

Phi   1

Species	Nº moles	Mole fraction	Type	Temperature [K]	
N2	8.6524	0.7239	Inert	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
☐ Ionization species

Define state of reactants and products

Reactants		**Products**
300	Temperature [K]	
1	Pressure [bar]	1

Additional constraints

Products

Constant Enthalpy: hP = hR

Calculate	Clear

Welcome to Combustion Toolbox v0.5 --- A MATLAB-GUI based open-source tool for solving combustion problems.

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