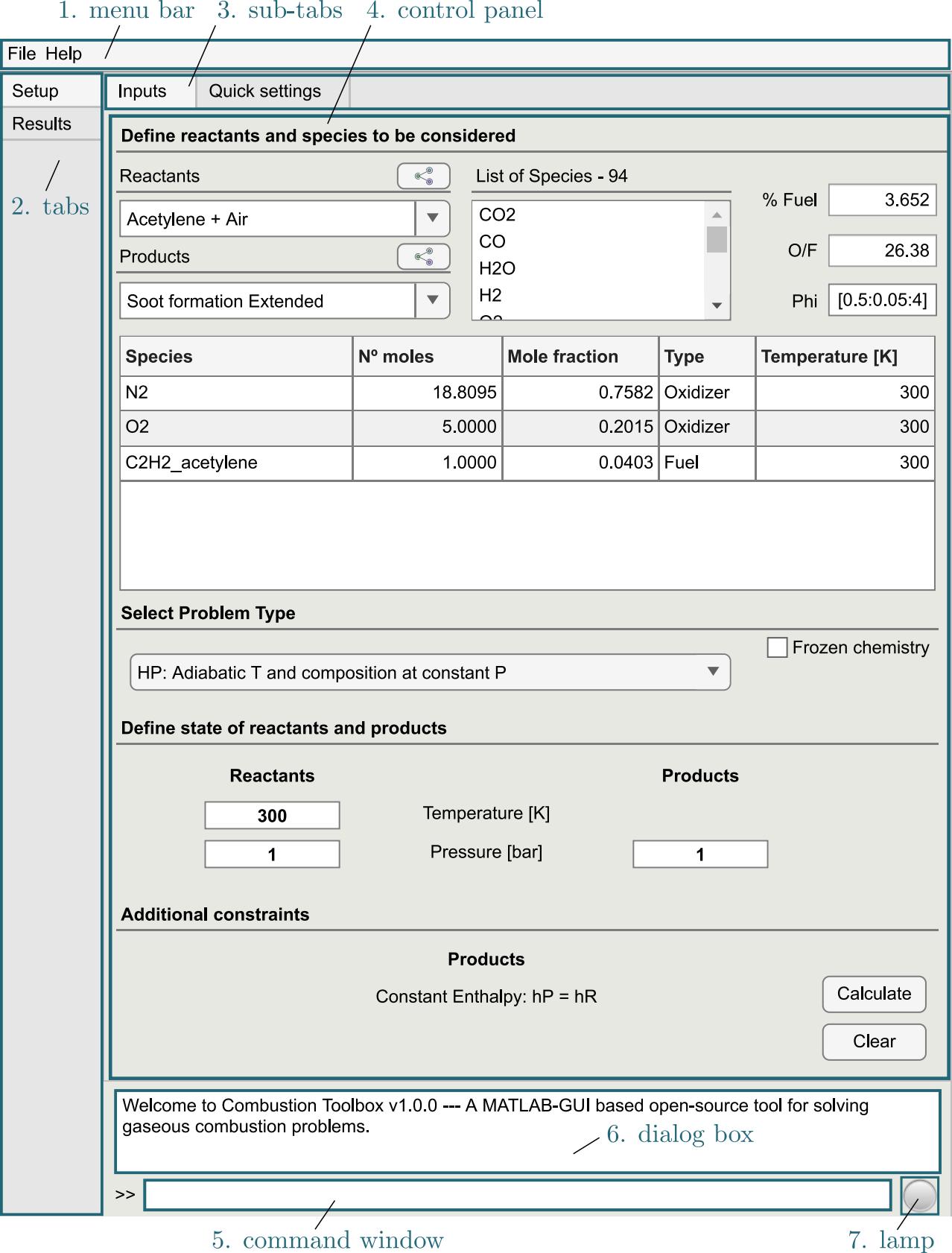
1. menu bar
3. sub-tabs
4. control panel
File Help
Setup
Results
2. tabs
Inputs
Quick settings
Define reactants and species to be considered
Reactants
Acetylene + Air
Products
Soot formation Extended
List of Species - 94
CO2
CO
H2O
H2
% Fuel
3.652
O/F
26.38
Phi
[0.5:0.05:4]
Species
Nº moles
Mole fraction
Type
Temperature [K]
N2
18.8095
0.7582
Oxidizer
300
O2
5.0000
0.2015
Oxidizer
300
C2H2_acetylene
1.0000
0.0403
Fuel
300
Select Problem Type
Frozen chemistry
HP: Adiabatic T and composition at constant P
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 v1.0.0 --- A MATLAB-GUI based open-source tool for solving gaseous combustion problems.
6. dialog box
>>
5. command window
7. lamp