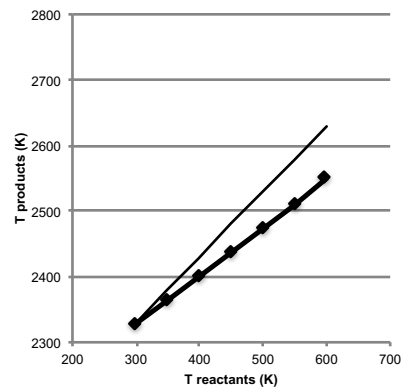


# Flame Temperatures?



## $T_{ad}$ versus $T_{react}$

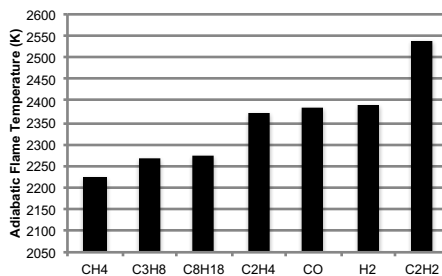
Reactants	$T_{prod}$	$T_{ad}$
298.15	2327.3	2327.3
350	2364	2379.15
400	2400	2429.15
450	2437	2479.15
500	2474	2529.15
550	2511	2579.15
600	2550	2629.15



# Adiabatic Flame Temperatures

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Fuel	Tad
CH4	2226
C3H8	2267
C8H18	2275
C2H4	2369
CO	2385
H2	2390
C2H2	2539



# Const. P Adiabatic Density Ratios

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	rho react (kg/m3)	rho prod (kg/m3)	rho/rho
H2	0.85	0.12	6.86
CO	1.16	0.17	6.92
CH4	1.12	0.15	7.47
C3H8	1.20	0.15	7.94
C2H4	1.17	0.15	8.01
isooctane	1.23	0.15	8.10
C2H2	1.16	0.14	8.36

