

1D11: EXPERIMENTAL AND KINETIC MODELING STUDY OF C₂H₄ OXIDATION AT HIGH PRESSURE.
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How good are the carbon totals as you move from fuel-lean to fuel-rich mixtures and can this be used to draw any conclusions regarding potential species that form but were not detected in the present experiments?

Reply by Peter Glarborg
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The carbon balance closes within 10%, while the accuracy on the measured hydrocarbon species is within 6%. We suspect that the measurement uncertainties are too large to draw conclusions on undetected species, such as oxygenated hydrocarbons.