

# Bunsen Burner Flame Discussion

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# Bunsen Burner Flame Discussion

- The methane flame is transparent and is somewhat difficult to see
- There are no adjustments in setting the flame height except gas flow
- The gas delivery pressure is set
- The blue aura around the perimeter of the flame is part of the flame and the flame height must be set with the “blue aura tip”
- Some labs use a “revealing (or illuminating) medium” such as salt or Formula 409 to enhance the flame profile
- Everyone running the Bunsen burner tests should be using a burner for natural gas (not propane)

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Flame Tip 1.5"

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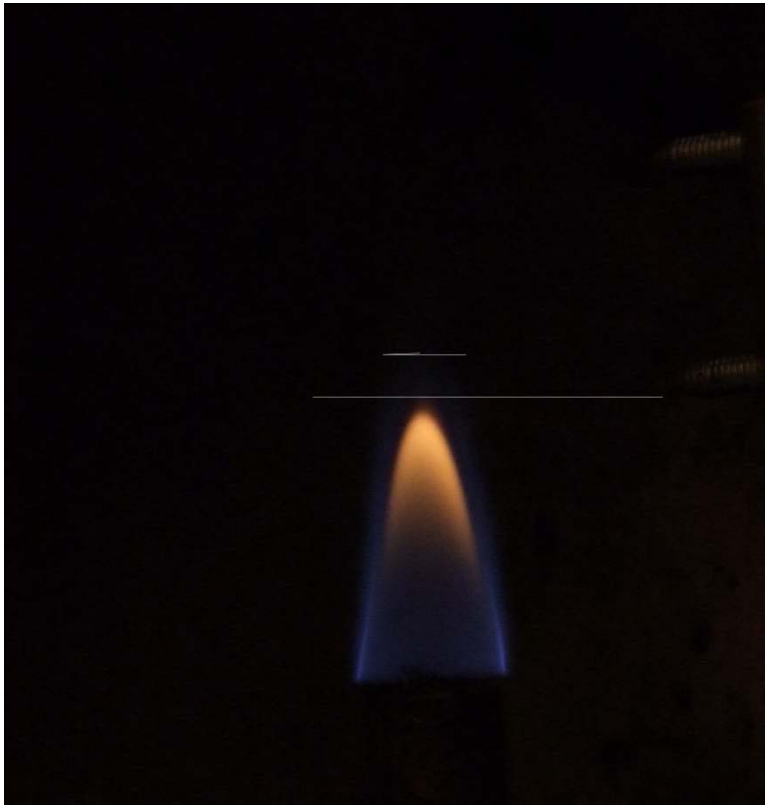


**Thermocouple Measurement  
taken from center of flame.**

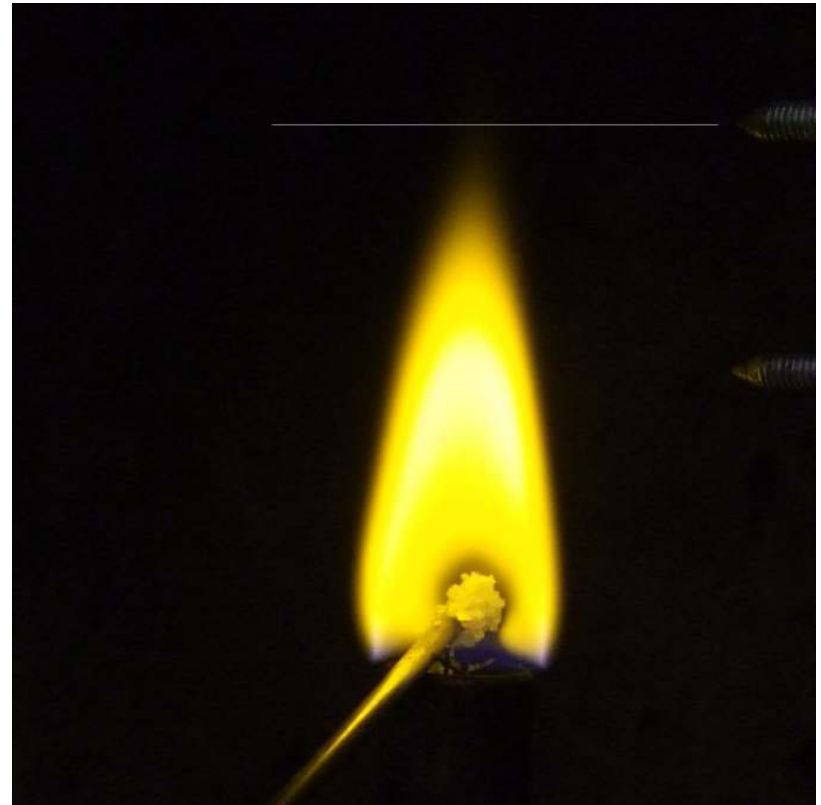


**Burner Temperature at 1594°F**

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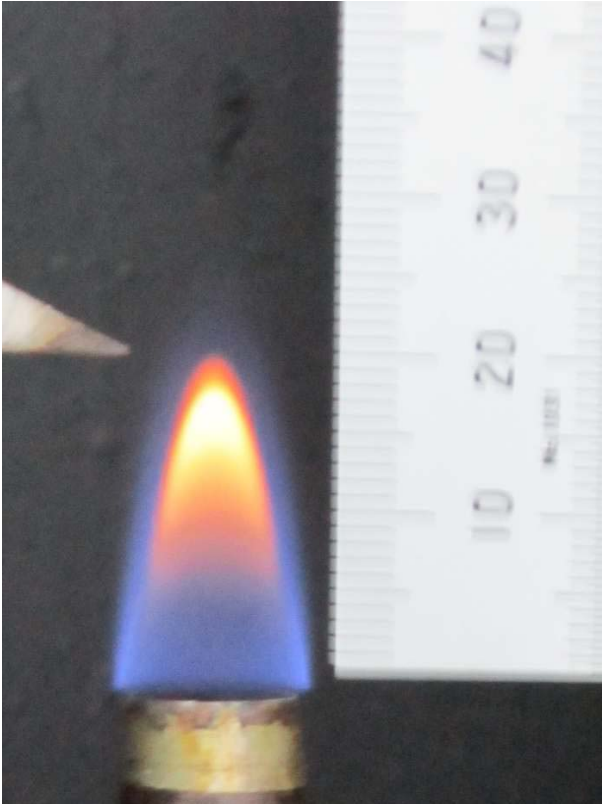


**Short Flame**



**Short Flame using  
Revealing Agent**

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**Short Flame**



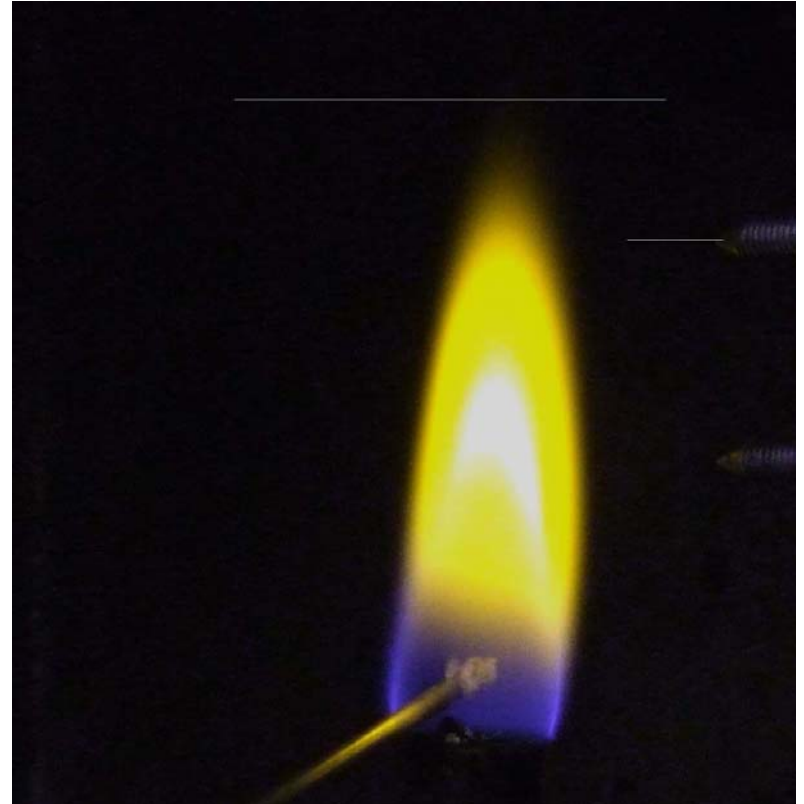
**Short Flame using  
Revealing Agent**



# Bunsen Burner Flame Discussion



**Long Flame**



**Long Flame using  
Revealing Agent**