Propane (C_3H_8) and Butane (C_4H_{10}) – Key Information

Propane (C_3H_8):

- Boiling point: –42°C

- Commonly used in LPG (liquefied petroleum gas)

- Performs well in cold environments due to its low boiling point

Butane (C_4H_{10}):

- Boiling point: –0.5°C

- Also used in LPG

- More suitable for warmer environments compared to propane

Comparison:

- Propane has a significantly lower boiling point than butane, making it more effective in colder climates

- Both gases are widely used in LPG and serve various industrial and household applications

Summary:

The document highlights differences in boiling points and environmental suitability, emphasizing how both gases contribute to the versatility of LPG systems.