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Title: Comparative thermodynamic analysis of biomass gasification-based light olefin production using methanol or DME as the platform chemical

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Highlights:

- Two platform chemicals for the production of biomass-based light olefins are compared.
- There is no significant thermodynamic difference in producing light olefins via methanol or DME.
- The same amount of carbon is lost as CO₂ in the two pathways but in different conversion steps.

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