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Table 1. Effect of Hydrogen Pressure on the Decomposition of Methylcyclopentane.

(key)

- 1) Expt. No.
  - 2) Temp. ( $^{\circ}\text{C}$ )
  - 3) Working pressure (atm)
  - 4) Time (hrs)
  - 5) Yield of liquid products (as % of the charge)
  - 6) Residue boiling above  $80^{\circ}$
  - 7) Corrected for 2 g loss on charging the reactor
  - 8) Calculated for the upper limit of the yields of cyclopentane and methylcyclopentane
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Table 2 gives data on the effect of temp on methylcyclopentane decomposition. From the data in this Table it is evident that increased temp very greatly accelerates the massive decomposition of methylcyclopentane.

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Table 2. Effect of Temperature on the Decomposition of Methylcyclopentane Under Hydrogen Pressure.

(key)

- 1) Expt. No.
- 2) Temp. ( $^{\circ}\text{C}$ )
- 3) Working pressure (atm)
- 4) Time (hrs)
- 5) Yield of liquid products (as % of charge)
- 6) Total
- 7) Residue boiling above  $80^{\circ}$
- 8) Corrected for 2 g loss on charging the reactor