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DESCRIPTORS: \*Ethanes, \*Ethylenes, \*Methanes,  
\*Acetylenes, \*Propanes, \*Propenes, \*Butanes, \*Butenes,  
\*Butadienes, \*Chemical reactions, Decomposition,  
Pyrolysis.

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mechanism of main secondary products during high  
temperature cracking of ethane to ethylene. Forma-  
tion of  $\text{CH}_4$ ,  $\text{C}_2\text{H}_2$ ,  $\text{C}_3\text{H}_2$ ,  $\text{C}_3\text{H}_4$ ,  $\text{C}_4\text{H}_{10}$ ,  $\text{C}_4\text{H}_8$  and  
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