**Hydrocarbons as Alternate refrigerants in domestic refrigerators-an overview**

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The thermodynamic properties of hydrocarbons namely Propane, Cyclopropane, Propene, Methyl acetylene, Propadiene and Dimethyether as alternatives to replace R12 have been predicted using SRK EOS. The values of vapour pressure,liquid specific volume,vapour specific volume, liquid enthalpy, vapour enthalpy, liquid enropy, vapour entropy have been estimated over the temperature range from -250C to +55 0C.Simulation of 89W domestic refrigerator is carried out using ten state point vapour compression cycle.The theoretical performance of the hydrocarbons have been comparatively assessed using standard refrigeration parameters. According to our results, Propane, Propene .are appropriate and recommended as alternatives of R12 with lower displacement compressor and Cyclopropane as direct substitute. Also implications with respect to material and lubricant oil compatibility, heat transfer characteristics are discussed

***Keywords*:** COP, Compressor work input, Discharge temperature,Displacement volume