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(54) **Title**: CONVERSION OF PROPANE TO PROPYLENE

(57) **Abstract**: A process is disclosed that includes brominating a C_2, C_3, C_4, C_5 or C_6 alkane with elemental bromine to form a bromo-alkane. The bromo-alkane is reacted to form a C_2, C_3, C_4, C_5 or C_6 alkene and HBr. The HBr is oxidized to form elemental bromine.