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consequences they have on the environment : fires and explosions, tropospheric pollution, greenhouse effect, hole in the stratospheric ozone layer.

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an important part due to the consequences they have on the environment : fires and explosions, tropospheric pollution, greenhouse effect, hole in the stratospheric ozone layer.

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The thermal decomposition reaction of 1,2-dibromopropane (12DBP) has been studied at temperatures from 592.2 to 636.2 K over the pressure range 0.23–24.5 Torr. The main products were four different bromopropenes and hydrogen

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bromide. Propylene as a minor product was also observed by the concurrent heterogeneous deb

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Gas-phase reactions of bis(η^5 -cyclopentadienyl)methylzirconium¹⁺ with dihydrogen, ethylene, and propylene. Journal of the American Chemical Society 1988 , 110 (12) , 4038-4039.

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total number of moles decrease and
the volume or density changes our
ideal batch reactor equation written in
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Gas-phase reactions can be classified as intramolecular or intermolecular reactions. Intramolecular reactions involve decomposition of precursor molecules into activated species, which are later involved in the CVD process. Hydrogen elimination is an

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example of such a process: $(\text{CH}_3)_3\text{CAsH}_2(\text{g}) \rightarrow (\text{CH}_3)_2\text{C}=\text{CH}_2(\text{g}) + \text{AsH}_3(\text{g})$.

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Ethylene oxide, called oxirane by
IUPAC, is an organic compound with
the formula C_2H_4O . It is a cyclic
ether and the simplest epoxide: a
three-membered ring consisting of one

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oxygen atom and two carbon atoms. Ethylene oxide is a colorless and flammable gas with a faintly sweet odor. Because it is a strained ring, ethylene oxide easily participates in a number of addition reactions that ...

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Chemical Engineering Q&A Library In
the gas-phase reaction $2A+B \rightleftharpoons 3C + 2D$, it was found that when 1.50 mole A, 2.00 mole B and 1.00 mole D were mixed and allowed to come to equilibrium at 25°C, the resulting mixture contained 1.20 mol C at a total pressure of 2.00 bar. Calculate (a) the

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mole fractions of each species at
equilibrium $x_A=$, $x_B=$, $x_C=$, and $x_D=$.

Answered: In the gas-phase reaction
 $2A+B \rightleftharpoons 3C + \Delta$ | bartleby

Investigations of gas-phase proton
transfer reactions have been
performed on protein molecular ions

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generated by electrospray ionization (ESI). Their reactions were studied in a heated capillary inlet/reactor prior to expansion into a quadrupole mass spectrometer. Results from investigations involving protonated horse heart cytochrome c and H, O suggest that Coulombic effects can

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lower ...
Gas-phase proton transfer reactions
involving multiply ...

The kinetics of the thermal reactions of
1-methylbicyclo[3.2.0]hept-2-en-7-one
have been studied in the gas phase
over the temperature range 489–565

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K. The primary reaction appears to occur via two parallel first-order homogeneous isomerizations to yield 5-methylbicyclo[2.2.1]hept-5-en-2-one and 2-methylhepta-1,3,6-trien-1-one.

The gas-phase thermal reactions of 1-methylbicyclo[3.2.0 ...

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The hydrogenation of carbon dioxide involves the activation of the thermodynamically very stable molecule CO_2 and formation of a C-H bond. Herein, we report that HCO_2^- and CO can be formed in the thermal reaction of CO_2 with a diatomic metal hydride species,

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FeH. The FeH-anions were produced by laser ablation, and the reaction with CO₂ was analyzed by mass spectrometry and quantum-chemical ...

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Gas-phase elimination reactions of
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acetoacetate, ethyl acetoacetate,
3-phenylhydroazopentane-2,4-dione,
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3-oxo-2-phenyl-hydrizonobutyrate
have been measured in the ...

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