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Gas-Phase Thermal Reactions | SpringerLink

The main categories of chemical change important in atmospheric chemistry are homogeneous thermal gas-phase reactions, heterogeneous reactions on surfaces and within droplets, and photochemical reactions driven by solar radiation. Evolution from the reactants to the products is constrained by the energetics of the system, described by a ...

Gas Phase Reaction - an overview | ScienceDirect Topics

Gas-Phase Structure Determination of Dihydroxycarbene, One of the Smallest Stable Singlet Carbenes. *Angewandte Chemie* 2014, 126, 4173-4176. DOI:

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10.1002/ange.201311082. Yu Harabuchi, Satoshi Maeda, Tetsuya Taketsugu, Koichi Ohno. Direct Pathway for Water-Gas Shift Reaction in Gas Phase.

Theoretical Investigation of Gas-Phase Thermal Reactions ...

Theoretical Investigation of Gas-Phase Thermal Reactions between Carbon Monoxide and Water Shao-Wen Hu * † , Shan-Mou Lü ‡ , and Xiang-Yun Wang †
Department of Applied Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, China 100871, and Group of Physics, Affiliated High School of Peking University, Beijing, China 100871

Theoretical Investigation of Gas-Phase Thermal Reactions ...

Our approach is a combination of B-C film deposition experiments at 700–1100 °C in both hydrogen and argon atmospheres while using quantum-chemical calculations to investigate a wide range of possible gas phase

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reactions. As quantum-chemical calculations of gas phase decomposition chemistry in CVD processes rely on time-consuming manual ...

Gas Phase Chemistry of Trimethylboron in Thermal Chemical

...

The gas-phase reaction thermodynamics in the chemical vapor deposition system of preparing silicon carbide via methyltrichlorosilane pyrolysis is investigated with a relatively complete set of 226 species, in which the thermodynamic data of 163 species are evaluated in this work with accurate model chemistry G3(MP2) and G3//B3LYP calculations combined with standard statistical thermodynamics.

Thermodynamics of the gas-phase reactions in chemical ...

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Unlike oxidation reactions, the efficiency of these reduction reactions is enhanced by the presence of water, which acts as a heat transfer agent as well as a source of hydrogen.

Gas-Phase Chemical Reduction (GPCR) - IHPA

The metal-based catalytic oxidation of alkenes to the corresponding epoxides is playing a significant role in the modern chemical industry. Nevertheless, these key processes are still lacking proper understanding with respect to the gas-phase runaway behaviour (thermal explosion) and to the hot spot formation

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on the catalytic surface, under the typical process conditions.

Gas-phase thermal explosions in catalytic direct oxidation ...

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

Gas-phase thermal decomposition reactions of 1,2 ...

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The kinetics of the thermal reactions of 1-methylbicyclo[3.2.0]hept-2-en-7-one

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have been studied in the gas phase over the temperature range 489–565 K. The primary reaction appears to occur two parallel first-order homogeneous isomerizations to yield 5-methylbicyclo[2.2.1]hept-5-en-2-one and 2-methylhepta-1,3,6-tr

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

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