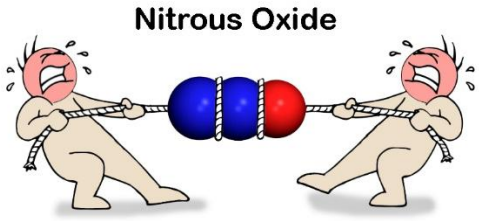
Synthetic Chemistry with Laughing Gas

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Nitrous oxide (N_2O, 'laughing gas') is rarely used as a reagent in synthetic chemistry. On the contrary, industrially produced N_2O is destroyed by catalytic decomposition into the elements. In the lecture, I will discuss the use of nitrous oxide as an azo transfer reagent[1] for the synthesis organic reducing agents,[2] azo dyes,[3] alkynyl triazenes,[4] and diazoolefins.[5] The latter can be used as precursors for novel carbon-donor ligands such as N-heterocyclic vinylidenes.[6]



References:

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