

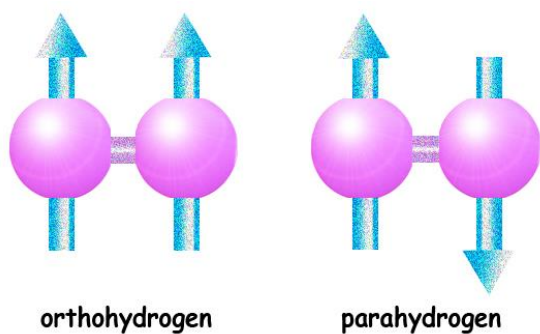
## Answer on Question #83134, Chemistry / General Chemistry

What are nuclear spin isomers of hydrogen?

### Answer

Molecular hydrogen occurs in two isomeric forms, one with its two proton nuclear spins aligned parallel (orthohydrogen), the other with its two proton spins aligned antiparallel (parahydrogen). These two forms are often referred to as spin isomers.

Parahydrogen is in a lower energy state than is orthohydrogen. At room temperature and thermal equilibrium, thermal excitation causes hydrogen to consist of approximately 75% orthohydrogen and 25% parahydrogen.



### Source

[https://en.wikipedia.org/wiki/Spin\\_isomers\\_of\\_hydrogen](https://en.wikipedia.org/wiki/Spin_isomers_of_hydrogen)

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