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energy hypersurface (synonymous with potential energy surface, PES)

The notion of hypersurface is used to stress the multidimensionality of PESs. In a molecular system consisting of N atomic nuclei, the number of the independent coordinates that fully determine the PES is equal to $3N - 6$ (or $3N - 5$ if the system is linear).

Source:
PAC, 1999, *71*, 1919 *(Glossary of terms used in theoretical organic chemistry)* on page 1938

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