

**bond-dissociation energy,  $D$**

The *enthalpy* (per mole) required to break a given bond of some specific molecular entity by homolysis, e.g. for  $\text{CH}_4 \rightarrow \text{H}_3\text{C}^\bullet + \text{H}^\bullet$ , symbolized as  $D(\text{CH}_3\text{-H})$  (cf. heterolytic bond dissociation energy).

See also *bond energy*.

1994, 66, 1089; 1990, 62, 2176