

1. Arrange the following in decreasing order of their boiling points.

(A) n-Butane

(B) 2-Methylbutane

(C) n-Pentane

(D) 2,2-Dimethylpropane

(a) A > B > C > D

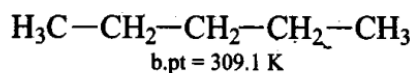
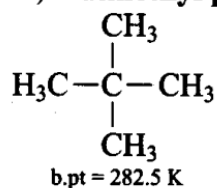
(b) B > C > D > A

(c) D > C > B > A

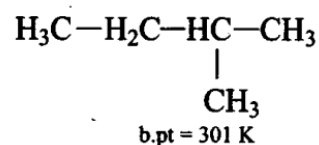
(d) C > B > D > A

Sol: (d) As the number of carbon atom increases, boiling point increases. Boiling point decreases with branching.

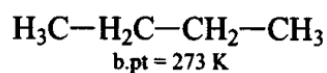
2, 2-dimethyl propane, n-pentane,



2-methyl butane



n-butane



2. (4 carbon atoms with no branching)