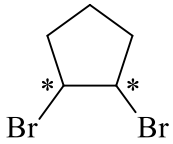
Marks
3

- 1,2-Dibromocyclopentane has two stereogenic carbon atoms, each marked with an asterisk (*) on the structure below.



The maximum number of configurational stereoisomers is given by the formula 2^n, where n is the number of stereogenic centres.

1,2-Dibromocyclopentane has only three configurational stereoisomeric forms, not four. Explain briefly why this is the case. Include drawings of the relevant stereoformulas in your answer.