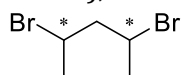


Draw all the stereo-isomers of the following compounds and assign (R) or (S) configuration:

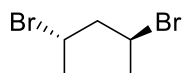
2,4-dibromopentane

Solution:

The molecule of **2,4-dibromopentane** (see below) has two chiral centers (marked with asterisk), so it could have 3 possible stereoisomers.

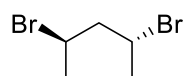


First stereoisomer:



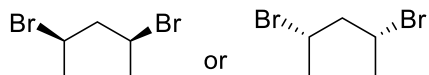
(2S,4S)-2,4-dibromopentane

Second stereoisomer:



(2R,4R)-2,4-dibromopentane

Third stereoisomer (also called meso-2,4-dibromopentane):



(2R,4S)-2,4-dibromopentane

Answer provided by www.AssignmentExpert.com