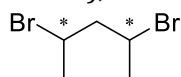


Draw all the stereo-isomers of the following compounds and assign (R) or (S) configuration:

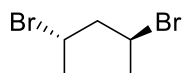
**2,4-dibromopentane**

**Solution:**

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

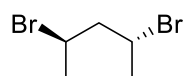


**First stereoisomer:**



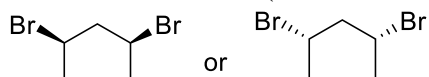
(2*S*,4*S*)-2,4-dibromopentane

**Second stereoisomer:**



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

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



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

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