

Marks
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- Alanine ($R = \text{CH}_3$) and lysine ($R = \text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$) are two common amino acids. Using *ala* and *lys* to represent the two amino acids, represent all constitutional isomers of the tripeptide formed from one *ala* and two *lys* units.

Comment, giving your reason, on whether the tripeptide(s) will be acidic, neutral or basic in character.

Draw the constitutional formulas, indicating the correct ionic state, of the products formed from acid hydrolysis of one of your tripeptides.

THE REMAINDER OF THIS PAGE IS FOR ROUGH WORKING ONLY