

## Question #40420, Chemistry, Inorganic Chemistry

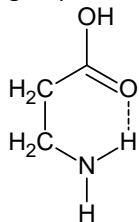
### Question

Hydrogen bonds can form between regions of polar molecule that are ..?

### Answer

Hydrogen bonds can form between regions of polar molecule that are **within close proximity of each other in the molecule** (the attracting polar groups are most often bound to vicinal (adjacent) carbon atoms) due to the molecular geometry.

For example, intramolecular hydrogen bonding occurs in  $\beta$ -aminoacids between carboxyl and amino groups:



or ethylene glycol between its two hydroxyl groups:

