

by one of the present authors and others¹⁾, using three-dimensional Fourier series. The published data showed that there were two close contacts between the nitrogen atom and the oxygen atoms. Recently the present authors checked the data given in the previous paper, and found that another type of close contact should be added. This is between the nitrogen atom and the O_2' atom, O_2' being in the molecule related to the original one by the screw axis. The $N\cdots O$ distances and the $C_\alpha-N\cdots O$ angles for the all types of close contacts are given in the figures.

The above distances and angles strongly suggest that there are three $N(H)\cdots O$ hydrogen bonds in this structure as in the cases of other amino acids of which crystal structures have been investigated.

Thus it can be said of the structure that the molecules are tied into infinite sheets approximately parallel to the (010) by the two different types of the $N(H)\cdots O$ hydrogen bonds, and these sheets are tied together in the other direction by the third type of the hydrogen bonds.

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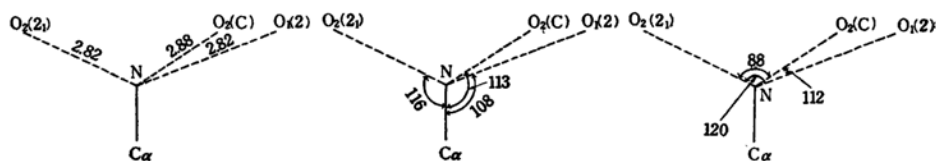
*A Remark on the Crystal Structure of
 α -Amino-isobutyric Acid*

By Sakutaro HIROKAWA and
Tamaichi ASHIDA

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The crystal structure of α -amino-isobutyric acid has previously been analysed

1) S. Hirokawa, S. Kuribayashi and I. Nitta, This Bulletin, 25, 192 (1952).



Figures showing hydrogen-bond distances and bond angles around the nitrogen atom.
Symbols in brackets show symmetry elements.