# Copy of a printed graph referenced as "Variation of H-bond length with donor and acceptor groups"

## **Contributors**

Fuller, Watson, 1935-

# **Publication/Creation**

June 1961

#### **Persistent URL**

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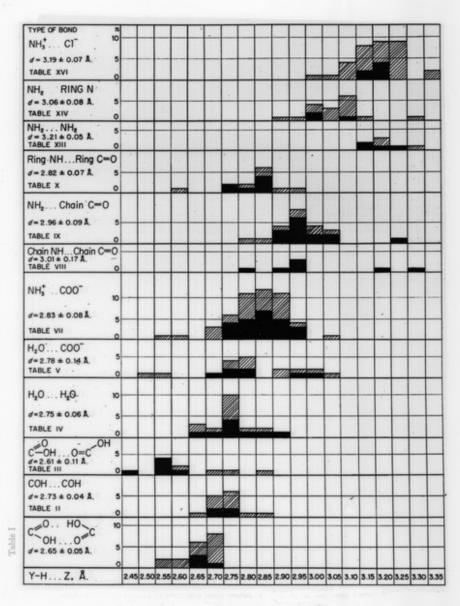
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 $\sigma$  A. in neighb are represented by black recessingles. The mean value of bond length in each ...stogram,  $\sigma$ , is given with its standard deviation.

formation the angle at the hydrogen donor atom between the hydrogen bond direction and the expected direction of the bond from the donor to the hydrogen atom should be less than about 25°. The hydrogen bond direction is defined by <X-Y...Z where Y is the donor atom, Z the acceptor atom and X an atom covalently bonded to

Y. If there are no atoms other than hydrogen covalently bonded to Y (as in water) it is convenient to let X denote another atom hydrogen bonded to Y. <X...Y...Z is then the angle between the two hydrogen bonds. For the three most comr hydrog. nor groups, i.e., -NH<sub>2</sub>+, the water

oxygen and -Nail2 (for this group only those ex-