Histogram referenced as "revised H-bond [hydrogen bond] distances histogram"

Contributors

Fuller, Watson, 1935-

Publication/Creation

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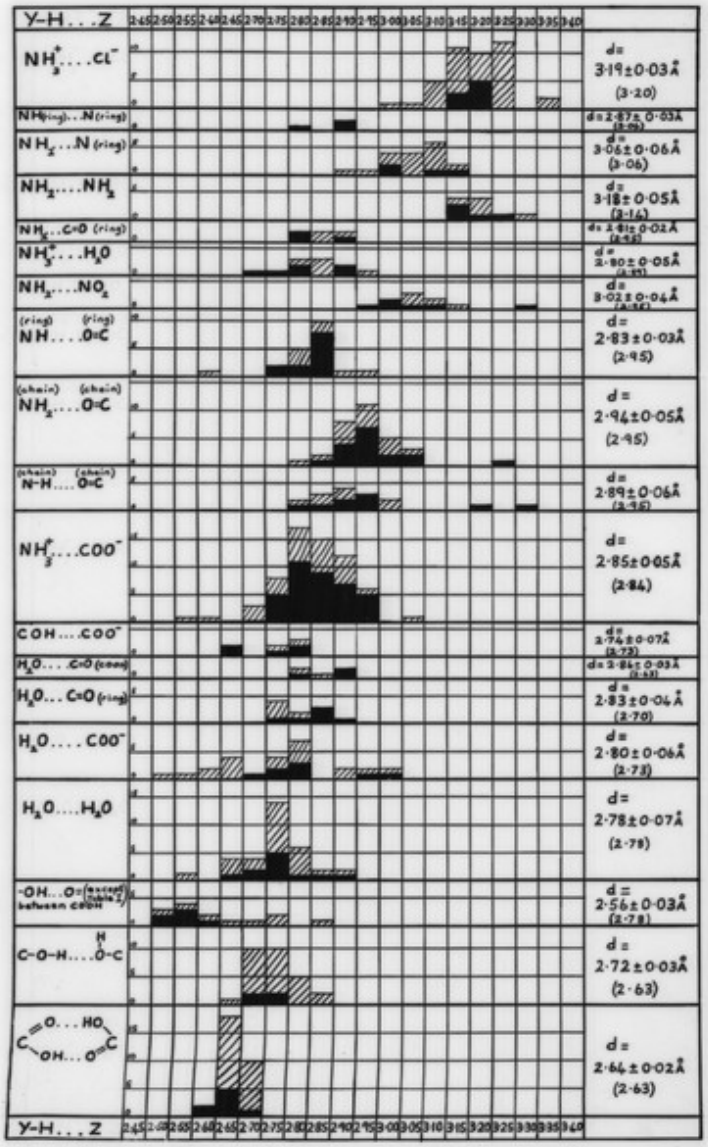
Y-H...Z
2·45 2·50 2·55 2·60 2·65 2·70 2·75 2·80 2·85 2·90 2·95 3·00 3·05 3·10 3·15 3·20 3·25 3·30 3·35 3·40
NH3+....Cl−
d = 3·19±0·03Å (3·20)
NH(ring)...N(ring)
d = 2·87±0·03Å (2·96)
NH2...N(ring)
d = 3·06±0·06Å (3·06)
NH2....NH2
d = 3·18±0·05Å (3·14)
NH2...C=O (ring)
d = 2·91±0·02Å (2·95)
NH3+...H2O
d = 2·80±0·05Å (2·85)
NH2....NO2
d = 3·02±0·04Å (2·96)
(ring) (ring)
NH....O=C
d = 2·83±0·03Å (2·95)
(chain) (chain)
NH2....O=C
d = 2·94±0·05Å (2·95)
(chain) (chain)
N-H....O=C
d = 2·89±0·06Å (2·95)
NH3+...COO−
d = 2·85±0·05Å (2·84)
COH....COO−
d = 2·74±0·07Å (2·72)
H2O.... C=O (ester)
d = 2·84±0·03Å (2·81)
H2O... C=O (ring)
d = 2·83±0·04Å (2·70)
H2O.... COO−
d = 2·80±0·06Å (2·73)
H2O....H2O
d = 2·78±0·07Å (2·78)
-OH...O= (except that between COOH)
d = 2·56±0·03Å (2·78)
C-O-H....O-C
d = 2·72±0·03Å (2·63)
d = 2·64±0·02Å (2·63)
Y-H...Z