

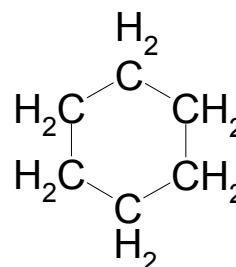
Cyclohexane



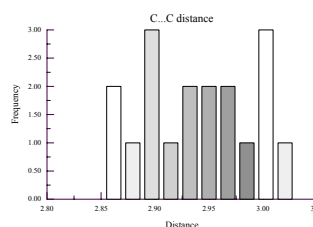
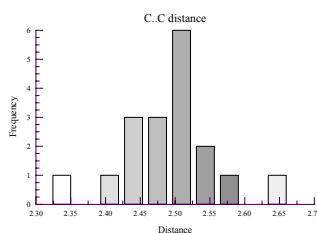
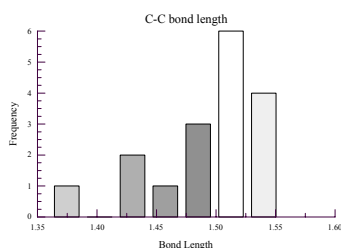
Information Cyclohexane

Formula C_6H_{12} weight 84.15 amu

Cambridge Crystallographic DataBase 5.24 April 2003.
Temperature < -100C, no disorder, no errors, R < 7.5%
CHAIR FORM ONLY (verified)



| | Determined | Ideal |
|---------|------------|-------|
| C1-C2 | 1.481 (69) | 1.54 |
| C1..C3 | 2.494 (72) | 2.52 |
| C1...C4 | 2.941 (53) | 2.96 |



C1-C2

Data 18, Minimum value: 1.278, Maximum value: 1.554, Median: 1.502, Arithmetic mean: 1.481, Geometric mean: 1.479, Quadratic mean: 1.482, Harmonic mean: 1.477, Absolute mean: 1.481, Variance: 0.0053, Standard deviation: 0.069, Absolute deviation: 0.050, Standard error: 0.016, Skewness: -0.48255

C1..C3

Data 18, Minimum value: 2.320, Maximum value: 2.664, Median: 2.495, Arithmetic mean: 2.494, Geometric mean: 2.493, Quadratic mean: 2.495, Harmonic mean: 2.492, Absolute mean: 2.494, Variance: 0.005, Standard deviation: 0.072, Absolute deviation: 0.050, Standard error: 0.012, Skewness: -0.0695

C1...C4

Data 18, Minimum value: 2.853, Maximum value: 3.029, Median: 2.944, Arithmetic mean: 2.941, Geometric mean: 2.941, Quadratic mean: 2.942, Harmonic mean: 2.942, Absolute mean: 2.941, Variance: 0.044, Standard deviation: 0.053, Absolute deviation: 0.044, Standard error: 0.012, Skewness: -0.059

Orthogonal Coordinates

| | | | | | | | |
|----|---------|---------|---------|-----|---------|---------|---------|
| C1 | -0.0663 | 1.3737 | -0.5452 | H8 | 0.0867 | -2.4804 | 0.3978 |
| C2 | 1.2466 | 0.7967 | 0.0036 | H9 | -1.3498 | -1.0672 | -1.0815 |
| C3 | 1.2778 | -0.7313 | -0.1457 | H10 | -2.1150 | -1.2494 | 0.5329 |
| C4 | 0.0663 | -1.3737 | 0.5452 | H11 | -2.2231 | 1.1369 | -0.2888 |
| C5 | -1.2466 | -0.7967 | -0.0036 | H12 | -1.2734 | 0.9992 | 1.2291 |
| C6 | -1.2778 | 0.7312 | 0.1457 | | | | |
| H1 | -0.0867 | 2.4804 | -0.3978 | | | | |
| H2 | -0.1234 | 1.1882 | -1.6443 | | | | |
| H3 | 1.3499 | 1.0672 | 1.0815 | | | | |
| H4 | 2.1150 | 1.2494 | -0.5329 | | | | |
| H5 | 1.2734 | -0.9992 | -1.2292 | | | | |
| H6 | 2.2232 | -1.1369 | 0.2887 | | | | |
| H7 | 0.1234 | -1.1882 | 1.6443 | | | | |