

Typical Thermal Expansion of the unit cell of a normal organic compound.

$0.00001 / \text{K} - 0.0001 / \text{K}^i$

$1 \times 10^{-5}$  to  $1 \times 10^{-4} / \text{K}$

~ 0.1 - 1% volume increase every 100K

Covalent organics ~ .1%/100K

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<sup>i</sup> Hammond, R., K. Pencheva, et al. (2005). "An examination of the thermal expansion of urea using high-resolution variable-temperature X-ray powder diffraction." Journal of Applied Crystallography **38**: 1038-1039.

Hofmann, D. W. M. (2002). "Fast estimation of crystal densities." Acta Crystallographic **B57**: 489-493.