

In other words, if we have: where the are irreducible, then the above norm is:

Composition Table or Cayley Table

Since the symmetry representations for the vibrations in water has either z for the 2 A₁ modes or x for the B₁ mode as a basis, all three bands will infrared active. If an axis on an atom is shifted to its negative, that atom contributes a -1 towards the character for that operation.

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