

Pyrazole, 3,4,4,5-tetramethyl-

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| Other names: | 4H-Pyrazole,3,4,4,5-tetramethyl- |
| Inchi: | InChI=1S/C7H12N2/c1-5-7(3,4)6(2)9-8-5/h1-4H3 |
| InchiKey: | AIHABYFCZQBWLH-UHFFFAOYSA-N |
| Formula: | C7H12N2 |
| SMILES: | CC1=NN=C(C)C1(C)C |
| Mol. weight [g/mol]: | 124.18 |
| CAS: | 19078-32-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 313.34 | kJ/mol | Joback Method |
| hf | 122.47 | kJ/mol | Joback Method |
| hfus | 13.46 | kJ/mol | Joback Method |
| hvap | 44.61 | kJ/mol | Joback Method |
| ie | 10.12 | eV | NIST Webbook |
| ie | 9.57 | eV | NIST Webbook |
| log10ws | -1.72 | | Crippen Method |
| logp | 1.863 | | Crippen Method |
| mcvol | 109.990 | ml/mol | McGowan Method |
| pc | 3805.69 | kPa | Joback Method |
| tb | 490.76 | K | Joback Method |
| tc | 726.83 | K | Joback Method |
| tf | 373.09 | K | Joback Method |
| vc | 0.436 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 258.51 | J/molxK | 490.76 | Joback Method |
| cpg | 274.22 | J/molxK | 530.11 | Joback Method |
| cpg | 288.95 | J/molxK | 569.45 | Joback Method |
| cpg | 302.80 | J/molxK | 608.80 | Joback Method |
| cpg | 315.84 | J/molxK | 648.14 | Joback Method |
| cpg | 328.18 | J/molxK | 687.49 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C19078321&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| ie: | Ionization energy |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/14-620-7/Pyrazole-3-4-4-5-tetramethyl.pdf>

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