

Acetamide, 2,2,2-trichloro-N-(4-methoxyphenyl)-

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| Other names: | Acetamide, N-(4-methoxyphenyl)-2,2,2-trichloro- |
| Inchi: | InChI=1S/C9H8Cl3NO2/c1-15-7-4-2-6(3-5-7)13-8(14)9(10,11)12/h2-5H,1H3,(H,13,14) |
| InchiKey: | IFSVHMNTIRKVCD-UHFFFAOYSA-N |
| Formula: | C9H8Cl3NO2 |
| SMILES: | COc1ccc(NC(=O)C(Cl)(Cl)Cl)cc1 |
| Mol. weight [g/mol]: | 268.52 |
| CAS: | 4257-81-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -49.80 | kJ/mol | Joback Method |
| hf | -251.33 | kJ/mol | Joback Method |
| hfus | 25.78 | kJ/mol | Joback Method |
| hvap | 66.02 | kJ/mol | Joback Method |
| log10ws | -3.36 | | Crippen Method |
| logp | 3.004 | | Crippen Method |
| mcvol | 168.050 | ml/mol | McGowan Method |
| pc | 3089.85 | kPa | Joback Method |
| rinpol | 1866.00 | | NIST Webbook |
| tb | 672.50 | K | Joback Method |
| tc | 913.89 | K | Joback Method |
| tf | 447.13 | K | Joback Method |
| vc | 0.626 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 373.72 | J/molxK | 672.50 | Joback Method |
| cpg | 383.78 | J/molxK | 712.73 | Joback Method |
| cpg | 392.95 | J/molxK | 752.96 | Joback Method |
| cpg | 401.26 | J/molxK | 793.19 | Joback Method |
| cpg | 408.79 | J/molxK | 833.43 | Joback Method |
| cpg | 415.59 | J/molxK | 873.66 | Joback Method |
| cpg | 421.70 | J/molxK | 913.89 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=C4257812&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 |
| hvp: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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