

Phenol, 2-methyl-5-(1-methylethyl)-, acetate

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| Other names: | Carvacrol, acetate Acetic acid, carvacryl-, |
| Inchi: | InChI=1S/C12H16O2/c1-8(2)11-6-5-9(3)12(7-11)14-10(4)13/h5-8H,1-4H3 |
| InchiKey: | OXZSUQJHKQOGOK-UHFFFAOYSA-N |
| Formula: | C12H16O2 |
| SMILES: | CC(=O)Oc1cc(C(C)C)ccc1C |
| Mol. weight [g/mol]: | 192.25 |
| CAS: | 4395-82-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -93.05 | kJ/mol | Joback Method |
| hf | -327.50 | kJ/mol | Joback Method |
| hfus | 19.36 | kJ/mol | Joback Method |
| hvap | 54.67 | kJ/mol | Joback Method |
| log10ws | -3.45 | | Crippen Method |
| logp | 3.044 | | Crippen Method |
| mcvol | 163.620 | ml/mol | McGowan Method |
| pc | 2462.92 | kPa | Joback Method |
| tb | 586.45 | K | Joback Method |
| tc | 798.75 | K | Joback Method |
| tf | 333.62 | K | Joback Method |
| vc | 0.618 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 393.82 | J/mol×K | 586.45 | Joback Method |
| cpg | 461.11 | J/mol×K | 763.37 | Joback Method |
| cpg | 449.20 | J/mol×K | 727.98 | Joback Method |
| cpg | 436.53 | J/mol×K | 692.60 | Joback Method |
| cpg | 423.09 | J/mol×K | 657.22 | Joback Method |
| cpg | 408.86 | J/mol×K | 621.83 | Joback Method |
| cpg | 472.25 | J/mol×K | 798.75 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0001653 | Paxs | 586.45 | Joback Method |
| dvisc | 0.0002091 | Paxs | 544.31 | Joback Method |
| dvisc | 0.0002750 | Paxs | 502.17 | Joback Method |
| dvisc | 0.0003803 | Paxs | 460.04 | Joback Method |
| dvisc | 0.0005614 | Paxs | 417.90 | Joback Method |
| dvisc | 0.0009045 | Paxs | 375.76 | Joback Method |
| dvisc | 0.0016439 | Paxs | 333.62 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C4395828&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| 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 |
| 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/85-320-2/Phenol-2-methyl-5-1-methylethyl-acetate.pdf>

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