# 5-Norbornen-2-yl acetate

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|---|---|
| **Other names:** | Bicyclo[2.2.1]hept-5-en-2-ol, acetate |
| | 5-Norbornen-2-yl acetate, mixture of endo and exo |
| | Acetic acid, 5-norbornen-2-yl ester |
| | Acetic acid, bicyclo[2.2.1]hept-5-en-2-yl ester |
| | norborn-5-en-2-yl acetate |
| **Inchi:** | InChI=1S/C9H12O2/c1-6(10)11-9-5-7-2-3-8(9)4-7/h2-3,7-9H,4-5H2,1H3 |
| **InchiKey:** | DRWRVXAXXGJZIO-UHFFFAOYSA-N |
| **Formula:** | C9H12O2 |
| **SMILES:** | CC(=O)OC1CC2C=CC1C2 |
| **Mol. weight [g/mol]:** | 152.19 |
| **CAS:** | 6143-29-9 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -77.37 | kJ/mol | Joback Method |
| hf | -297.01 | kJ/mol | Joback Method |
| hfus | 18.32 | kJ/mol | Joback Method |
| hvap | 44.77 | kJ/mol | Joback Method |
| log10ws | -1.72 | | Crippen Method |
| logp | 1.514 | | Crippen Method |
| mcvol | 119.090 | ml/mol | McGowan Method |
| pc | 3272.78 | kPa | Joback Method |
| tb | 493.85 | K | Joback Method |
| tc | 704.70 | K | Joback Method |
| tf | 292.23 | K | Joback Method |
| vc | 0.455 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 278.17 | J/mol×K | 493.85 | Joback Method |
| cpg | 293.60 | J/mol×K | 528.99 | Joback Method |
| cpg | 308.08 | J/mol×K | 564.13 | Joback Method |
| cpg | 321.67 | J/mol×K | 599.27 | Joback Method |

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|---|---|---|---|---|
| cpg | 334.41 | J/mol×K | 634.41 | Joback Method |
| cpg | 346.34 | J/mol×K | 669.56 | Joback Method |
| cpg | 357.51 | J/mol×K | 704.70 | Joback Method |
| dvisc | 0.0013177 | Pa×s | 292.23 | Joback Method |
| dvisc | 0.0011587 | Pa×s | 325.83 | Joback Method |
| dvisc | 0.0010436 | Pa×s | 359.44 | Joback Method |
| dvisc | 0.0009570 | Pa×s | 393.04 | Joback Method |
| dvisc | 0.0008896 | Pa×s | 426.64 | Joback Method |
| dvisc | 0.0008358 | Pa×s | 460.25 | Joback Method |
| dvisc | 0.0007920 | Pa×s | 493.85 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 347.70 | K | 1.90 | NIST Webbook |

# Sources

**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=C6143299&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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

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|---|---|
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tbrp:** | Boiling point at reduced pressure |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |