

Bicyclo[3.1.0]hex-3-en-2-one, 5-(1-methylethyl)-

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|----------------------|---|
| Other names: | Dehydrosabinaketone Dehydro sabinene ketone Sabina ketone dehydro |
| Inchi: | InChI=1S/C9H12O/c1-6(2)9-4-3-8(10)7(9)5-9/h3-4,6-7H,5H2,1-2H3 |
| InchiKey: | IBMZINAPWMATGM-UHFFFAOYSA-N |
| Formula: | C9H12O |
| SMILES: | CC(C)C12C=CC(=O)C1C2 |
| Mol. weight [g/mol]: | 136.19 |
| CAS: | 36262-12-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| gf | 45.84 | kJ/mol | Joback Method |
| hf | -153.45 | kJ/mol | Joback Method |
| hfus | 6.25 | kJ/mol | Joback Method |
| hvap | 38.45 | kJ/mol | Joback Method |
| log10ws | -1.79 | | Crippen Method |
| logp | 1.788 | | Crippen Method |
| mcvol | 113.220 | ml/mol | McGowan Method |
| pc | 3468.36 | kPa | Joback Method |
| rinpol | 1115.00 | | NIST Webbook |
| rinpol | 1113.00 | | NIST Webbook |
| rinpol | 1121.00 | | NIST Webbook |
| rinpol | 1116.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1127.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1079.00 | | NIST Webbook |
| rinpol | 1116.00 | | NIST Webbook |
| rinpol | 1128.60 | | NIST Webbook |
| rinpol | 1079.00 | | NIST Webbook |
| rinpol | 1119.00 | | NIST Webbook |
| rinpol | 1086.00 | | NIST Webbook |
| rinpol | 1097.00 | | NIST Webbook |
| ripol | 1643.00 | | NIST Webbook |
| ripol | 1643.00 | | NIST Webbook |

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|-------|---------|----------------------|---------------|
| ripol | 1643.00 | | NIST Webbook |
| ripol | 1643.00 | | NIST Webbook |
| tb | 485.58 | K | Joback Method |
| tc | 711.64 | K | Joback Method |
| tf | 304.95 | K | Joback Method |
| vc | 0.439 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 261.88 | J/mol×K | 485.58 | Joback Method |
| cpg | 277.23 | J/mol×K | 523.26 | Joback Method |
| cpg | 291.37 | J/mol×K | 560.93 | Joback Method |
| cpg | 304.45 | J/mol×K | 598.61 | Joback Method |
| cpg | 316.63 | J/mol×K | 636.29 | Joback Method |
| cpg | 328.06 | J/mol×K | 673.97 | Joback Method |
| cpg | 338.90 | J/mol×K | 711.64 | Joback Method |

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=C36262121&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 |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvac: | 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 |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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