

cis-1-carbomethoxy-2-methylcyclohex-3-ene

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C9H14O2/c1-7-5-3-4-6-8(7)9(10)11-2/h3,5,7-8H,4,6H2,1-2H3/t7-,8+/m0/s1 |
| InchiKey: | BOWOPOVPEZXLKV-JGVFFNPUSA-N |
| Formula: | C9H14O2 |
| SMILES: | COC(=O)C1CCC=CC1C |
| Mol. weight [g/mol]: | 154.21 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -162.32 | kJ/mol | Joback Method |
| hf | -382.13 | kJ/mol | Joback Method |
| hfus | 15.98 | kJ/mol | Joback Method |
| hvap | 45.20 | kJ/mol | Joback Method |
| log10ws | -1.72 | | Crippen Method |
| logp | 1.762 | | Crippen Method |
| mcvol | 129.950 | ml/mol | McGowan Method |
| pc | 2992.59 | kPa | Joback Method |
| ripol | 1514.20 | | NIST Webbook |
| tb | 495.65 | K | Joback Method |
| tc | 705.97 | K | Joback Method |
| tf | 267.25 | K | Joback Method |
| vc | 0.481 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 292.21 | J/mol×K | 495.65 | Joback Method |
| cpg | 308.44 | J/mol×K | 530.70 | Joback Method |
| cpg | 323.88 | J/mol×K | 565.76 | Joback Method |
| cpg | 338.53 | J/mol×K | 600.81 | Joback Method |
| cpg | 352.41 | J/mol×K | 635.86 | Joback Method |
| cpg | 365.52 | J/mol×K | 670.91 | Joback Method |
| cpg | 377.85 | J/mol×K | 705.97 | Joback Method |
| dvisc | 0.0026183 | Paxs | 267.25 | Joback Method |
| dvisc | 0.0014230 | Paxs | 305.32 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0008854 | Paxs | 343.38 | Joback Method |
| dvisc | 0.0006056 | Paxs | 381.45 | Joback Method |
| dvisc | 0.0004438 | Paxs | 419.52 | Joback Method |
| dvisc | 0.0003424 | Paxs | 457.58 | Joback Method |
| dvisc | 0.0002750 | Paxs | 495.65 | 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=R388366&Units=SI |

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 |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| ripol: | Polar retention indices |
| 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/92-133-2/cis-1-carbomethoxy-2-methylcyclohex-3-ene.pdf>

Generated by Cheméo on 2023-12-08 12:09:52.809690142 +0000 UTC m=+4326641.730267457.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.