2-methylene-6,6-dimethylcyclohex-3-ene-1-carbox

Other names: 2-Methylene-6,6-dimethylcyclohex-3-ene-1-carbaldehyde
Inchi: InChI=1S/C10H14O/c1-8-5-4-6-10(2,3)9(8)7-11/h4-5,7,9H,1,6H2,2-3H3
InchiKey: HIQSWLVZAOEUPK-UHFFFAOYSA-N
Formula: C10H14O
SMILES: C=C1C=CCC(C)(C)C1C=O
Mol. weight [g/mol]: 150.22

Physical Properties

Property code	Value	Unit	Source
gf	28.09	kJ/mol	Joback Method
hf	-144.07	kJ/mol	Joback Method
hfus	10.62	kJ/mol	Joback Method
hvap	43.99	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.344		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
rinpol	1004.00		NIST Webbook
rinpol	1004.00		NIST Webbook
tb	490.30	K	Joback Method
tc	704.76	K	Joback Method
tf	285.94	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.87	J/mol×K	490.30	Joback Method
cpg	311.57	J/mol×K	526.04	Joback Method
cpg	326.26	J/mol×K	561.79	Joback Method
cpg	340.04	J/mol×K	597.53	Joback Method
cpg	352.99	J/mol×K	633.27	Joback Method
cpg	365.22	J/mol×K	669.01	Joback Method
cpg	376.83	J/mol×K	704.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R407031&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume