

3-Oxa-2,2,4-trimethyl-4-vinylcyclohexanone

Inchi: InChI=1S/C11H16O2/c1-5-11(4)7-6-8(12)10(2,3)9(11)13/h5H,1,6-7H2,2-4H3
InchiKey: YLXCTKJCLZSLPF-UHFFFAOYSA-N
Formula: C11H16O2
SMILES: C=CC1(C)CCC(=O)C(C)(C)C1=O
Mol. weight [g/mol]: 180.24

Physical Properties

Property code	Value	Unit	Source
gf	-109.84	kJ/mol	Joback Method
hf	-355.88	kJ/mol	Joback Method
hfus	2.30	kJ/mol	Joback Method
hvap	45.72	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	2.137		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
rinpol	1108.00		NIST Webbook
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tb	598.76	K	Joback Method
tc	846.45	K	Joback Method
tf	399.35	K	Joback Method
vc	0.575	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.94	J/molxK	598.76	Joback Method
cpg	417.41	J/molxK	640.04	Joback Method
cpg	434.97	J/molxK	681.32	Joback Method
cpg	451.85	J/molxK	722.61	Joback Method
cpg	468.25	J/molxK	763.89	Joback Method
cpg	484.37	J/molxK	805.17	Joback Method
cpg	500.42	J/molxK	846.45	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R432790&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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