10,10-Dimethyl-2,6-dimethylenebicyclo[7.2.0]unde

Inchi: InChI=1S/C15H24/c1-11-6-5-7-12(2)13-10-15(3,4)14(13)9-8-11/h13-14H,1-2,5-10H2,3-4
InchiKey: PMMLIVYPEUJENN-UHFFFAOYSA-N
Formula: C15H24
SMILES: C=C1CCCC(=C)C2CC(C)(C)C2CC1
Mol. weight [g/mol]: 204.35
CAS: 357414-37-0

Physical Properties

Property code	Value	Unit	Source
gf	229.38	kJ/mol	Joback Method
hf	-74.75	kJ/mol	Joback Method
hfus	12.83	kJ/mol	Joback Method
hvap	48.53	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.725		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	2023.58	kPa	Joback Method
rinpol	1440.40		NIST Webbook
tb	571.32	K	Joback Method
tc	795.83	K	Joback Method
tf	324.11	K	Joback Method
vc	0.715	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.15	J/mol×K	571.32	Joback Method
cpg	523.89	J/mol×K	608.74	Joback Method
cpg	546.20	J/mol×K	646.16	Joback Method
cpg	567.20	J/mol×K	683.57	Joback Method
cpg	587.05	J/mol×K	720.99	Joback Method
cpg	605.87	J/mol×K	758.41	Joback Method
cpg	623.79	J/mol×K	795.83	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=C357414370&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