4,4-Dimethyl-3-(3-methylbut-3-enylidene)-2-methy

Inchi: InChI=1S/C15H22/c1-10(2)6-7-14-11(3)13-8-12(13)9-15(14,4)5/h7,12-13H,1,3,6,8-9H2,2
InchiKey: PHDRQUPMFWWDKK-AUWJEWJLSA-N
Formula: C15H22
SMILES: C=C(C)CC=C1C(=C)C2CC2CC1(C)C
Mol. weight [g/mol]: 202.34
CAS: 79718-83-5

Physical Properties

Property code	Value	Unit	Source
gf	349.45	kJ/mol	Joback Method
hf	57.32	kJ/mol	Joback Method
hfus	20.12	kJ/mol	Joback Method
hvap	47.88	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.501		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
tb	558.28	K	Joback Method
tc	766.18	K	Joback Method
tf	319.15	K	Joback Method
vc	0.728	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.38	J/mol×K	558.28	Joback Method
cpg	494.90	J/mol×K	592.93	Joback Method
cpg	513.22	J/mol×K	627.58	Joback Method
cpg	530.47	J/mol×K	662.23	Joback Method
cpg	546.82	J/mol×K	696.88	Joback Method
cpg	562.40	J/mol×K	731.53	Joback Method
cpg	577.38	J/mol×K	766.18	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=C79718835&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume