Bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene-

Other names: 2-Isopropyl-5-methyl-9-methylene-bicyclo-1-decene(4.4.0)
2-Isopropyl-5-methyl-9-methylenebicyclo[4.4.0]dec-1-ene
2-Isopropyl-5-methyl-9-methylene[4.4.0]dec-1-ene

Inchi: InChI=1S/C15H24/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h10,12,14H,3,5-9H2,1-2,

InchiKey: FTSINDMZMFBWFS-UHFFFAOYSA-N

Formula: C15H24

SMILES: C=C1CCC2C(=C(C(C)C)CCC2C)C1

Mol. weight [g/mol]: 204.35

CAS: 150320-52-8

Physical Properties

Property code	Value	Unit	Source
gf	209.86	kJ/mol	Joback Method
hf	-118.17	kJ/mol	Joback Method
hfus	18.24	kJ/mol	Joback Method
hvap	50.89	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.725		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
tb	581.00	K	Joback Method
tc	796.26	K	Joback Method
tf	305.09	K	Joback Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.75	J/mol×K	581.00	Joback Method
cpg	523.94	J/mol×K	616.88	Joback Method
cpg	544.85	J/mol×K	652.75	Joback Method
cpg	564.54	J/mol×K	688.63	Joback Method
cpg	583.05	J/mol×K	724.51	Joback Method
cpg	600.43	J/mol×K	760.38	Joback Method

cpg	616.72	J/mol×K	796.26	Joback Method
dvisc	0.0022300	Pa×s	305.09	Joback Method
dvisc	0.0013141	Pa×s	351.08	Joback Method
dvisc	0.0008753	Pa×s	397.06	Joback Method
dvisc	0.0006343	Pa×s	443.05	Joback Method
dvisc	0.0004884	Pa×s	489.03	Joback Method
dvisc	0.0003933	Pa×s	535.01	Joback Method
dvisc	0.0003278	Pa×s	581.00	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=C150320528&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
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume