Tricyclo[5.2.1.0(2.6)]dec-3-ene, 3-methyl-8-methylene

Inchi: InChI=1S/C12H16/c1-7-3-4-10-11-6-9(12(7)10)5-8(11)2/h3,9-12H,2,4-6H2,1H3

InchiKey: DHZWMXHLUPYZQS-UHFFFAOYSA-N

Formula: C12H16

SMILES: C=C1CC2CC1C1CC=C(C)C21

Mol. weight [g/mol]: 160.26

Physical Properties

Property code	Value	Unit	Source
gf	286.01	kJ/mol	Joback Method
hf	31.44	kJ/mol	Joback Method
hfus	19.89	kJ/mol	Joback Method
hvap	43.02	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.165		Crippen Method
mcvol	138.760	ml/mol	McGowan Method
pc	2635.25	kPa	Joback Method
rinpol	1176.20		NIST Webbook
rinpol	1186.00		NIST Webbook
tb	497.08	K	Joback Method
tc	709.93	K	Joback Method
tf	298.02	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.82	J/mol×K	497.08	Joback Method
cpg	353.89	J/mol×K	532.55	Joback Method
cpg	371.69	J/mol×K	568.03	Joback Method
cpg	388.32	J/mol×K	603.50	Joback Method
cpg	403.86	J/mol×K	638.98	Joback Method
cpg	418.39	J/mol×K	674.45	Joback Method
cpg	432.00	J/mol×K	709.93	Joback Method
dvisc	0.0008002	Pa×s	298.02	Joback Method

dvisc	0.0009280	Pa×s	331.20	Joback Method
dvisc	0.0010476	Pa×s	364.37	Joback Method
dvisc	0.0011589	Pa×s	397.55	Joback Method
dvisc	0.0012622	Pa×s	430.73	Joback Method
dvisc	0.0013581	Pa×s	463.90	Joback Method
dvisc	0.0014471	Pa×s	497.08	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=R298050&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume