Tricyclo[5.2.1.0(2.6)]dec-3-ene, 3-methyl-9-methylene

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

InchiKey: PPYRKCDWMMCCSX-UHFFFAOYSA-N

Formula: C12H16

SMILES: C=C1CC2CC1C1C(C)=CCC21

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	1161.60		NIST Webbook
rinpol	1206.30		NIST Webbook
rinpol	1176.20		NIST Webbook
rinpol	1186.30		NIST Webbook
rinpol	1176.20		NIST Webbook
rinpol	1169.60		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	418.39	J/mol×K	674.45	Joback Method
cpg	403.86	J/mol×K	638.98	Joback Method
cpg	388.32	J/mol×K	603.50	Joback Method

cpg	371.69	J/mol×K	568.03	Joback Method
cpg	353.89	J/mol×K	532.55	Joback Method
cpg	432.00	J/mol×K	709.93	Joback Method
dvisc	0.0014471	Pa×s	497.08	Joback Method
dvisc	0.0013581	Pa×s	463.90	Joback Method
dvisc	0.0012622	Pa×s	430.73	Joback Method
dvisc	0.0011589	Pa×s	397.55	Joback Method
dvisc	0.0010476	Pa×s	364.37	Joback Method
dvisc	0.0009280	Pa×s	331.20	Joback Method
dvisc	0.0008002	Pa×s	298.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R298065&Units=SI
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

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

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