

Tricyclo[5.2.1.0(2.6)]dec-3-ene, 4-methyl-9-methylene

Inchi:	InChI=1S/C12H16/c1-7-3-11-9-5-8(2)10(6-9)12(11)4-7/h4,9-12H,2-3,5-6H2,1H3
InchiKey:	YXCAGBGMWYQASE-UHFFFAOYSA-N
Formula:	C12H16
SMILES:	C=C1CC2CC1C1C=C(C)CC21
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	1142.00		NIST Webbook
rinpol	1156.00		NIST Webbook
rinpol	1134.70		NIST Webbook
rinpol	1183.70		NIST Webbook
rinpol	1173.50		NIST Webbook
rinpol	1165.10		NIST Webbook
tb	497.08	K	Joback Method
tc	709.93	K	Joback Method
tf	298.02	K	Joback Method
vc	0.539	m ³ /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	Paxs	298.02	Joback Method
dvisc	0.0009280	Paxs	331.20	Joback Method
dvisc	0.0010476	Paxs	364.37	Joback Method
dvisc	0.0011589	Paxs	397.55	Joback Method
dvisc	0.0012622	Paxs	430.73	Joback Method
dvisc	0.0013581	Paxs	463.90	Joback Method
dvisc	0.0014471	Paxs	497.08	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R298085&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

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