Exo-tricyclo[5.2.1.0(2.6)]decane

Other names: Dicyclopentadiene, tetrahydro, endo
Inchi: InChI=1S/C10H16/c1-2-9-7-4-5-8(6-7)10(9)3-1/h7-10H,1-6H2
InchiKey: LPSXSORODABQKT-UHFFFAOYSA-N
Formula: C10H16
SMILES: C1CC2C3CCC(C3)C2C1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	195.76	kJ/mol	Joback Method
hf	-57.83	kJ/mol	Joback Method
hfus	15.03	kJ/mol	Joback Method
hvap	37.46	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.833		Crippen Method
mcvol	119.180	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
rinpol	1071.00		NIST Webbook
rinpol	1071.00		NIST Webbook
tb	448.02	K	Joback Method
tc	661.62	K	Joback Method
tf	248.52	K	Joback Method
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.54	J/mol×K	448.02	Joback Method
cpg	293.60	J/mol×K	483.62	Joback Method
cpg	313.20	J/mol×K	519.22	Joback Method
cpg	331.44	J/mol×K	554.82	Joback Method
cpg	348.41	J/mol×K	590.42	Joback Method
cpg	364.21	J/mol×K	626.02	Joback Method
cpg	378.92	J/mol×K	661.62	Joback Method

dvisc	0.0006121	Pa×s	248.52	Joback Method
dvisc	0.0007158	Pa×s	281.77	Joback Method
dvisc	0.0008100	Pa×s	315.02	Joback Method
dvisc	0.0008951	Pa×s	348.27	Joback Method
dvisc	0.0009721	Pa×s	381.52	Joback Method
dvisc	0.0010419	Pa×s	414.77	Joback Method
dvisc	0.0011052	Pa×s	448.02	Joback Method

Sources

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=U215287&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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