Tricyclo[3.2.1.0(2,4)]octane, 8-methylene-, (1«alpha»,2«alpha»,4«alpha»,5«alpha»)-

Other names: Tricyclo[3.2.1.02,4]octane, 8-methylene-, (1«alpha»,2«alpha»,4«alpha»,5«alpha»)-
Inchi: InChI=1S/C9H12/c1-5-6-2-3-7(5)9-4-8(6)9/h6-9H,1-4H2
InchiKey: SZEDHOXKNCVHIL-UHFFFAOYSA-N
Formula: C9H12
SMILES: C=C1C2CCC1C1CC21
Mol. weight [g/mol]: 120.19
CAS: 38310-48-4

Physical Properties

Property code	Value	Unit	Source
gf	264.62	kJ/mol	Joback Method
hf	59.37	kJ/mol	Joback Method
hfus	15.48	kJ/mol	Joback Method
hvap	35.05	kJ/mol	Joback Method
ie	9.10 ± 0.05	eV	NIST Webbook
log10ws	-2.16		Crippen Method
logp	2.219		Crippen Method
mcvol	100.790	ml/mol	McGowan Method
pc	3337.38	kPa	Joback Method
tb	415.76	K	Joback Method
tc	616.99	K	Joback Method
tf	257.97	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.88	J/mol×K	415.76	Joback Method
cpg	232.52	J/mol×K	449.30	Joback Method
cpg	247.96	J/mol×K	482.84	Joback Method
cpg	262.30	J/mol×K	516.38	Joback Method
cpg	275.60	J/mol×K	549.92	Joback Method
cpg	287.96	J/mol×K	583.46	Joback Method
cpg	299.45	J/mol×K	616.99	Joback Method

dvisc	0.0002440	Pa×s	257.97	Joback Method
dvisc	0.0003496	Pa×s	284.27	Joback Method
dvisc	0.0004714	Pa×s	310.57	Joback Method
dvisc	0.0006066	Pa×s	336.87	Joback Method
dvisc	0.0007525	Pa×s	363.16	Joback Method
dvisc	0.0009068	Pa×s	389.46	Joback Method
dvisc	0.0010673	Pa×s	415.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38310484&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
ie:	Ionization energy
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