5-Methylenebicyclo(2.2.1)-2-heptene

Other names:	5-Methylene-2-norbornene
	2-Methylene-5-norbornene
	2-Norbornene, 5-methylene-
	5-Methylene-2-norbornylene
	5-Methylenebicyclo(2.2.1)hept-2-ene
	5-Methylenenorbornene
	5-Methylenebicyclo[2.2.1]-2-heptene
Inchi:	InChI=1S/C8H10/c1-6-4-7-2-3-8(6)5-7/h2-3,7-8H,1,4-5H2
InchiKey:	WTQBISBWKRKLIJ-UHFFFAOYSA-N
Formula:	C8H10
SMILES:	C=C1CC2C=CC1C2
Mol. weight [g/mol]:	106.17

Physical Properties

Property code	Value	Unit	Source
hf	200.13	kJ/mol	Cheméo Relay (1.0)
hfus	10.71	kJ/mol	Joback Method
hvap	37.83	kJ/mol	Cheméo Relay (1.0)
ie	9.01	eV	NIST Webbook
ie	8.93	eV	NIST Webbook
logp	2.139		Crippen Method
mcvol	93.260	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	798.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	800.00		NIST Webbook
tb	392.91	K	Cheméo Relay (1.0)
tc	609.73	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	174.97	J/mol×K	398.51	Joback Method
cpg	189.30	J/mol×K	432.74	Joback Method
cpg	202.67	J/mol×K	466.97	Joback Method
cpg	215.16	J/mol×K	501.20	Joback Method
cpg	226.80	J/mol×K	535.43	Joback Method
cpg	237.67	J/mol×K	569.66	Joback Method
cpg	247.80	J/mol×K	603.88	Joback Method
dvisc	0.0004647	Pa×s	226.72	Joback Method
dvisc	0.0004653	Pa×s	255.35	Joback Method
dvisc	0.0004658	Pa×s	283.98	Joback Method
dvisc	0.0004662	Pa×s	312.62	Joback Method
dvisc	0.0004666	Pa×s	341.25	Joback Method
dvisc	0.0004669	Pa×s	369.88	Joback Method
dvisc	0.0004671	Pa×s	398.51	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C694917&Units=SI

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
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