

Bicyclo[2.2.1]-2-heptene, 5,6-bis-methylene

Inchi:	InChI=1S/C10H14/c1-4-10-7-5-6-8(2)9(10)3/h5,7,10H,2-4,6H2,1H3/t10-m/s1
InchiKey:	RUBSRCIOICQTJU-SNVBAGLBSA-N
Formula:	C10H14
SMILES:	C=C1CC=CC(CC)C1=C
Mol. weight [g/mol]:	134.22

Physical Properties

Property code	Value	Unit	Source
gf	193.89	kJ/mol	Joback Method
hf	30.85	kJ/mol	Joback Method
hfus	12.39	kJ/mol	Joback Method
hvap	38.89	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.085		Crippen Method
mcvol	128.000	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
rinpol	880.00		NIST Webbook
tb	445.23	K	Joback Method
tc	647.68	K	Joback Method
tf	237.96	K	Joback Method
vc	0.482	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.60	J/mol×K	445.23	Joback Method
cpg	270.86	J/mol×K	478.97	Joback Method
cpg	285.42	J/mol×K	512.71	Joback Method
cpg	299.28	J/mol×K	546.46	Joback Method
cpg	312.45	J/mol×K	580.20	Joback Method
cpg	324.96	J/mol×K	613.94	Joback Method
cpg	336.81	J/mol×K	647.68	Joback Method
dvisc	0.0017906	Paxs	237.96	Joback Method
dvisc	0.0010648	Paxs	272.50	Joback Method

dvisc	0.0007117	Paxs	307.05	Joback Method
dvisc	0.0005161	Paxs	341.60	Joback Method
dvisc	0.0003970	Paxs	376.14	Joback Method
dvisc	0.0003192	Paxs	410.69	Joback Method
dvisc	0.0002655	Paxs	445.23	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=R127225&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

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