Bicyclo[3.2.1]octane, 2,3-bis(methylene)-

Other names: bicyclo 3,2,1-octane-2,3-bis(methylene)
Inchi: InChI=1S/C10H14/c1-7-5-9-3-4-10(6-9)8(7)2/h9-10H,1-6H2
InchiKey: WKLJTSKNIHOXNV-UHFFFAOYSA-N
Formula: C10H14
SMILES: C=C1CC2CCC(C2)C1=C
Mol. weight [g/mol]: 134.22
CAS: 49826-54-2

Physical Properties

Property code	Value	Unit	Source
gf	236.78	kJ/mol	Joback Method
hf	52.03	kJ/mol	Joback Method
hfus	11.41	kJ/mol	Joback Method
hvap	38.34	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
ripol	1265.00		NIST Webbook
tb	448.54	K	Joback Method
tc	657.50	K	Joback Method
tf	258.66	K	Joback Method
vc	0.462	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.41	J/mol×K	448.54	Joback Method
cpg	331.87	J/mol×K	622.67	Joback Method
cpg	318.57	J/mol×K	587.85	Joback Method
cpg	304.43	J/mol×K	553.02	Joback Method
cpg	289.38	J/mol×K	518.19	Joback Method
cpg	273.39	J/mol×K	483.37	Joback Method
cpg	344.36	J/mol×K	657.50	Joback Method

dvisc	0.0005623	Pa×s	448.54	Joback Method
dvisc	0.0005958	Pa×s	416.89	Joback Method
dvisc	0.0006374	Pa×s	385.25	Joback Method
dvisc	0.0006902	Pa×s	353.60	Joback Method
dvisc	0.0007591	Pa×s	321.95	Joback Method
dvisc	0.0008523	Pa×s	290.31	Joback Method
dvisc	0.0009846	Pa×s	258.66	Joback Method

Sources

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=C49826542&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume