Bicyclo[2.2.1]hept-5-ene-2,3-diol-, (exo,exo)-

Other names: exo-cis-Norborn-5-ene-2,3-diol
Inchi: InChI=1S/C7H10O2/c8-6-4-1-2-5(3-4)7(6)9/h1-2,4-9H,3H2
InchiKey: TZLWRLOYRRZECT-UHFFFAOYSA-N
Formula: C7H10O2
SMILES: OC1C2C=CC(C2)C1O
Mol. weight [g/mol]: 126.15
CAS: 20224-38-8

Physical Properties

Property code	Value	Unit	Source
gf	-141.64	kJ/mol	Joback Method
hf	-335.73	kJ/mol	Joback Method
hfus	19.60	kJ/mol	Joback Method
hvap	64.21	kJ/mol	Joback Method
log10ws	-0.66		Crippen Method
logp	-0.086		Crippen Method
mcvol	95.210	ml/mol	McGowan Method
pc	4749.69	kPa	Joback Method
tb	551.49	K	Joback Method
tc	735.64	K	Joback Method
tf	314.93	K	Joback Method
vc	0.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	254.12	J/mol×K	551.49	Joback Method
cpg	264.57	J/mol×K	582.18	Joback Method
cpg	274.40	J/mol×K	612.87	Joback Method
cpg	283.67	J/mol×K	643.57	Joback Method
cpg	292.39	J/mol×K	674.26	Joback Method
cpg	300.61	J/mol×K	704.95	Joback Method
cpg	308.36	J/mol×K	735.64	Joback Method
dvisc	0.0157201	Pa×s	314.93	Joback Method

dvisc	0.0054483	Pa×s	354.36	Joback Method
dvisc	0.0023347	Pa×s	393.78	Joback Method
dvisc	0.0011673	Pa×s	433.21	Joback Method
dvisc	0.0006552	Pa×s	472.64	Joback Method
dvisc	0.0004019	Pa×s	512.06	Joback Method
dvisc	0.0002644	Pa×s	551.49	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20224388&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
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