8-Oxabicyclo[5.1.0]octa-2,5-diene

Inchi: InChI=1S/C7H8O/c1-3-8-4-2-7-5-6(1)7/h1-4,6-7H,5H2
InchiKey: CVNHANQTOOZXAH-UHFFFAOYSA-N
Formula: C7H8O
SMILES: C1=CC2CC2C=CO1
Mol. weight [g/mol]: 108.14
CAS: 50356-49-5

Physical Properties

Property code	Value	Unit	Source
gf	79.16	kJ/mol	Joback Method
hf	-70.97	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	36.44	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.680		Crippen Method
mcvol	85.040	ml/mol	McGowan Method
pc	4345.39	kPa	Joback Method
tb	406.85	K	Joback Method
tc	623.64	K	Joback Method
tf	225.58	K	Joback Method
vc	0.319	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.03	J/mol×K	406.85	Joback Method
cpg	176.95	J/mol×K	442.98	Joback Method
cpg	189.86	J/mol×K	479.11	Joback Method
cpg	201.83	J/mol×K	515.25	Joback Method
cpg	212.90	J/mol×K	551.38	Joback Method
cpg	223.15	J/mol×K	587.51	Joback Method
cpg	232.64	J/mol×K	623.64	Joback Method
dvisc	0.0011110	Pa×s	225.58	Joback Method
dvisc	0.0009011	Pa×s	255.79	Joback Method

dvisc	0.0007639	Pa×s	286.00	Joback Method
dvisc	0.0006683	Pa×s	316.22	Joback Method
dvisc	0.0005985	Pa×s	346.43	Joback Method
dvisc	0.0005456	Pa×s	376.64	Joback Method
dvisc	0.0005042	Pa×s	406.85	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50356495&Units=SI

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