7,8-DIOXABICYCLO(4,2,2)DEC-9-ENE

Other names: 7,8-Dioxabicyclo(4,2,2)dec-9-ene
Inchi: InChI=1S/C8H12O2/c1-2-4-8-6-5-7(3-1)9-10-8/h5-8H,1-4H2
InchiKey: MNEHGPASSFGNGC-UHFFFAOYSA-N
Formula: C8H12O2
SMILES: C1=CC2CCCCC1OO2
Mol. weight [g/mol]: 140.18

Physical Properties

Property code	Value	Unit	Source
hfus	21.53	kJ/mol	Joback Method
ie	9.00	eV	NIST Webbook
logp	1.816		Crippen Method
mcvol	109.300	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.17	J/mol×K	466.06	Joback Method
cpg	263.86	J/mol×K	504.18	Joback Method
cpg	280.38	J/mol×K	542.30	Joback Method
cpg	295.80	J/mol×K	580.42	Joback Method
cpg	310.15	J/mol×K	618.54	Joback Method
cpg	323.50	J/mol×K	656.66	Joback Method
cpg	335.88	J/mol×K	694.78	Joback Method
dvisc	0.0045419	Pa×s	255.62	Joback Method
dvisc	0.0025254	Pa×s	290.69	Joback Method
dvisc	0.0015934	Pa×s	325.77	Joback Method
dvisc	0.0010995	Pa×s	360.84	Joback Method
dvisc	0.0008102	Pa×s	395.91	Joback Method
dvisc	0.0006275	Pa×s	430.99	Joback Method
dvisc	0.0005050	Pa×s	466.06	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=C52148568&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume