Bicyclo[2.2.1]heptane, 2-iodo-, exo-

Inchi: InChI=1S/C7H11I/c8-7-4-5-1-2-6(7)3-5/h5-7H,1-4H2/t5?,6?,7-/m1/s1
InchiKey: IUXVGOYYSBDCSW-KPGICGJXSA-N
Formula: C7H11I
SMILES: IC1CC2CCC1C2
Mol. weight [g/mol]: 222.07
CAS: 30983-85-8

Physical Properties

Property code	Value	Unit	Source
gf	167.87	kJ/mol	Joback Method
hf	8.16	kJ/mol	Joback Method
hfus	13.53	kJ/mol	Joback Method
hvap	40.24	kJ/mol	Joback Method
ie	9.00	eV	NIST Webbook
log10ws	-3.12		Crippen Method
logp	2.610		Crippen Method
mcvol	113.590	ml/mol	McGowan Method
pc	3628.97	kPa	Joback Method
tb	465.78	K	Joback Method
tc	708.38	K	Joback Method
tf	254.83	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.93	J/mol×K	465.78	Joback Method
cpg	287.38	J/mol×K	667.95	Joback Method
cpg	275.87	J/mol×K	627.52	Joback Method
cpg	263.36	J/mol×K	587.08	Joback Method
cpg	249.77	J/mol×K	546.65	Joback Method
cpg	234.99	J/mol×K	506.21	Joback Method
cpg	298.01	J/mol×K	708.38	Joback Method
dvisc	0.0010018	Pa×s	465.78	Joback Method

dvisc	0.0010483	Pa×s	430.62	Joback Method
dvisc	0.0011059	Pa×s	395.46	Joback Method
dvisc	0.0011788	Pa×s	360.30	Joback Method
dvisc	0.0012741	Pa×s	325.15	Joback Method
dvisc	0.0014033	Pa×s	289.99	Joback Method
dvisc	0.0015873	Pa×s	254.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30983858&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
ie:	Ionization energy
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