Bicyclo[2.2.1]heptane-2-carbonyl chloride

Other names: Bicyclo[2.2.1]heptane-2-carbonyl chloride
Inchi: InChI=1S/C8H11ClO/c9-8(10)7-4-5-1-2-6(7)3-5/h5-7H,1-4H2
InchiKey: GDBUZLAZTFSUEL-UHFFFAOYSA-N
Formula: C8H11ClO
SMILES: O=C(Cl)C1CC2CCC1C2
Mol. weight [g/mol]: 158.63

Physical Properties

Property code	Value	Unit	Source
hf	-254.57	kJ/mol	Cheméo Relay (1.0)
hfus	17.51	kJ/mol	Joback Method
hvap	50.73	kJ/mol	Cheméo Relay (1.0)
logp	2.188		Crippen Method
mcvol	115.670	ml/mol	McGowan Method
tb	469.78	K	Cheméo Relay (1.0)
tf	298.12	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	254.81	J/mol×K	486.82	Joback Method
cpg	270.21	J/mol×K	523.43	Joback Method
cpg	284.55	J/mol×K	560.04	Joback Method
cpg	297.88	J/mol×K	596.65	Joback Method
cpg	310.27	J/mol×K	633.26	Joback Method
cpg	321.79	J/mol×K	669.88	Joback Method
cpg	332.51	J/mol×K	706.49	Joback Method
dvisc	0.0018435	Pa×s	287.89	Joback Method
dvisc	0.0015883	Pa×s	321.04	Joback Method
dvisc	0.0014072	Pa×s	354.20	Joback Method
dvisc	0.0012729	Pa×s	387.36	Joback Method
dvisc	0.0011697	Pa×s	420.51	Joback Method
dvisc	0.0010883	Pa×s	453.66	Joback Method
dvisc	0.0010225	Pa×s	486.82	Joback Method

Sources

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=C35202905&Units=SI
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
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point