

Bicyclo[2.2.1]hept-2-en-7-ol, anti-

Inchi:	InChI=1S/C7H10O/c8-7-5-1-2-6(7)4-3-5/h1-2,5-8H,3-4H2
InchiKey:	PSKWDFVNXXATCG-UHFFFAOYSA-N
Formula:	C7H10O
SMILES:	OC1C2C=CC1CC2
Mol. weight [g/mol]:	110.15
CAS:	694-70-2

Physical Properties

Property code	Value	Unit	Source
gf	2.89	kJ/mol	Joback Method
hf	-163.16	kJ/mol	Joback Method
hfus	14.44	kJ/mol	Joback Method
hvap	47.84	kJ/mol	Joback Method
ie	9.19	eV	NIST Webbook
log10ws	-1.29		Crippen Method
logp	0.943		Crippen Method
mcvol	89.340	ml/mol	McGowan Method
pc	4385.77	kPa	Joback Method
tb	463.98	K	Joback Method
tc	658.77	K	Joback Method
tf	258.35	K	Joback Method
vc	0.338	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.39	J/molxK	463.98	Joback Method
cpg	257.31	J/molxK	626.30	Joback Method
cpg	247.73	J/molxK	593.84	Joback Method
cpg	237.49	J/molxK	561.37	Joback Method
cpg	226.55	J/molxK	528.91	Joback Method
cpg	214.87	J/molxK	496.44	Joback Method
cpg	266.29	J/molxK	658.77	Joback Method
dvisc	0.0005464	Paxs	463.98	Joback Method

dvisc	0.0007104	Paxs	429.71	Joback Method
dvisc	0.0009668	Paxs	395.44	Joback Method
dvisc	0.0013948	Paxs	361.16	Joback Method
dvisc	0.0021730	Paxs	326.89	Joback Method
dvisc	0.0037559	Paxs	292.62	Joback Method
dvisc	0.0075063	Paxs	258.35	Joback Method

Sources

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=C694702&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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