Bicyclo[2.2.1]heptan-2-ol, endo-

Other names:	2-Norbornanol, endo-
	«alpha»-Norborneol
	endo-Bicyclo[2.2.1]heptan-2-ol
	endo-Norbornanol
	endo-Norborneol
	endo-2-Norbornanol
	endo-2-Norborneol
	2-endo-Norbornanol
Inchi:	InChI=1S/C7H12O/c8-7-4-5-1-2-6(7)3-5/h5-8H,1-4H2
InchiKey:	ZQTYQMYDIHMKQB-UHFFFAOYSA-N
Formula:	C7H12O
SMILES:	OC1CC2CCC1C2
Mol. weight [g/mol]:	112.17
CAS:	497-36-9

Physical Properties

Property code	Value	Unit	Source
gf	-27.07	kJ/mol	Joback Method
hf	-220.94	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	47.54	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.167		Crippen Method
mcvol	93.640	ml/mol	McGowan Method
pc	4183.90	kPa	Joback Method
ripol	1558.00		NIST Webbook
tb	464.82	K	Joback Method
tc	657.72	K	Joback Method
tf	257.59	K	Joback Method
vc	0.351	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	217.81	J/mol×K	464.82	Joback Method
cpg	278.35	J/mol×K	625.57	Joback Method
cpg	267.69	J/mol×K	593.42	Joback Method
cpg	256.36	J/mol×K	561.27	Joback Method
cpg	244.29	J/mol×K	529.12	Joback Method
cpg	231.46	J/mol×K	496.97	Joback Method
cpg	288.37	J/mol×K	657.72	Joback Method
dvisc	0.0005609	Pa×s	464.82	Joback Method
dvisc	0.0007424	Pa×s	430.28	Joback Method
dvisc	0.0010318	Pa×s	395.74	Joback Method
dvisc	0.0015273	Pa×s	361.21	Joback Method
dvisc	0.0024562	Pa×s	326.67	Joback Method
dvisc	0.0044197	Pa×s	292.13	Joback Method
dvisc	0.0093099	Pa×s	257.59	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C497369&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf:	Normal melting (fusion) point
vc:	Critical Volume

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