

Bicyclo[2.2.1]heptane, 2-methyl-

Other names:	Norbornane, 2-methyl- 2-Methylbicyclo[2.2.1]heptane 2-Methylnorbornane
Inchi:	InChI=1S/C8H14/c1-6-4-7-2-3-8(6)5-7/h6-8H,2-5H2,1H3
InchiKey:	KWSARSUDWPZTFF-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CC1CC2CCC1C2
Mol. weight [g/mol]:	110.20
CAS:	15185-11-2

Physical Properties

Property code	Value	Unit	Source
gf	118.17	kJ/mol	Joback Method
hf	-89.35	kJ/mol	Joback Method
hfus	11.72	kJ/mol	Joback Method
hvap	33.09	kJ/mol	Joback Method
log10ws	-2.24		Crippen Method
logp	2.442		Crippen Method
mcvol	101.860	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
tb	395.52	K	Joback Method
tc	596.29	K	Joback Method
tf	208.04	K	Joback Method
tt	278.25 ± 0.02	K	NIST Webbook
vc	0.389	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.71	J/mol×K	395.52	Joback Method
cpg	277.84	J/mol×K	562.83	Joback Method
cpg	264.08	J/mol×K	529.37	Joback Method
cpg	249.43	J/mol×K	495.91	Joback Method
cpg	233.86	J/mol×K	462.44	Joback Method

cpg	217.30	J/mol×K	428.98	Joback Method
cpg	290.77	J/mol×K	596.29	Joback Method
dvisc	0.0004697	Pa×s	395.52	Joback Method
dvisc	0.0004694	Pa×s	364.27	Joback Method
dvisc	0.0004692	Pa×s	333.03	Joback Method
dvisc	0.0004688	Pa×s	301.78	Joback Method
dvisc	0.0004684	Pa×s	270.53	Joback Method
dvisc	0.0004679	Pa×s	239.29	Joback Method
dvisc	0.0004672	Pa×s	208.04	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15185112&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume

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