2-Bornanone oxime

Other names:	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, oxime
	Camphor, oxime
	DL-Camphor oxime
	Camphor, d-oxime
	Kampferoxim
	2-Camphanone oxime
	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one oxime
	(.+/-.)-Camphor oxime
	NSC 193372
	bornan-2-one oxime
Inchi:	InChI=1S/C10H17NO/c1-9(2)7-4-5-10(9,3)8(6-7)11-12/h7,12H,4-6H2,1-3H3
InchiKey:	OVFDEGGJFJECAT-UHFFFAOYSA-N
Formula:	C10H17NO
SMILES:	CC12CCC(CC1=NO)C2(C)C
Mol. weight [g/mol]:	167.25
CAS:	13559-66-5

Physical Properties

Property code	Value	Unit	Source
hf	-211.35	kJ/mol	Joback Method
hvap	56.06	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	2.663		Crippen Method
mcvol	141.590	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
tb	613.10	K	Joback Method
tc	827.62	K	Joback Method
tf	388.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	1.20	kJ/mol	388.00	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13559665&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
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

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