

4a,7-Methano-4aH-naphth[1,8a-b]oxirene, octahydro-4,4,8,8-tetramethyl-

Other names:	octahydro-4,4,8,8-tetramethyl-4a,7-methano-4aH-naphth[1,8a-b]oxirene
Inchi:	InChI=1S/C15H24O/c1-12(2)7-6-11-15(16-11)13(3,4)10-5-8-14(12,15)9-10/h10-11H,5-9H
InchiKey:	VQH LGZRKOZIABH-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	CC1(C)CCC2OC23C(C)(C)C2CCC13C2
Mol. weight [g/mol]:	220.35
CAS:	67999-56-8

Physical Properties

Property code	Value	Unit	Source
gf	194.92	kJ/mol	Joback Method
hf	-173.45	kJ/mol	Joback Method
hfus	12.07	kJ/mol	Joback Method
hvap	47.92	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.770		Crippen Method
mcvol	184.640	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1544.00		NIST Webbook
rinpol	1544.00		NIST Webbook
tb	588.13	K	Joback Method
tc	827.05	K	Joback Method
tf	444.26	K	Joback Method
vc	0.715	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.28	J/molxK	588.13	Joback Method
cpg	560.07	J/molxK	627.95	Joback Method
cpg	580.30	J/molxK	667.77	Joback Method
cpg	599.60	J/molxK	707.59	Joback Method
cpg	618.63	J/molxK	747.41	Joback Method
cpg	638.01	J/molxK	787.23	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=C67999568&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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