3a,7-Methano-3aH-cyclopentacyclooctene, 1,4,5,6,7,8,9,9a-octahydro-1,1,7-trimethyl-, [3aR-(3a«alpha»,7«alpha»,9a«beta»)]-

Other names:	3a,7-Methano-3aH-cyclopentacyclooctene, 1,4,5,6,7,8,9,9a-octahydro-1,1,7-trimethyl-, [3aR-(3a«alpha»,7«alpha»,9a«beta»)]- Cloven Clovene
Inchi:	InChI=1S/C15H24/c1-13(2)9-10-15-7-4-6-14(3,11-15)8-5-12(13)15/h9-10,12H,4-8,11H2,1
InchiKey:	MKZIRHIVARSBHI-UHFFFAOYSA-N
Formula:	C15H24
SMILES:	CC12CCCC3(C=CC(C)(C)C3CC1)C2
Mol. weight [g/mol]:	204.35
CAS:	469-92-1

Physical Properties

Property code	Value	Unit	Source
gf	227.15	kJ/mol	Joback Method
hf	-69.85	kJ/mol	Joback Method
hfus	6.11	kJ/mol	Joback Method
hvap	45.77	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.559		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2367.97	kPa	Joback Method
rinpol	1440.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1460.00		NIST Webbook
rinpol	1444.00		NIST Webbook
rinpol	1396.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1396.00		NIST Webbook
rinpol	1444.00		NIST Webbook
ripol	1601.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1617.00		NIST Webbook
tb	570.84	K	Joback Method
tc	813.30	K	Joback Method
tf	370.29	K	Joback Method
vc	0.702	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.50	J/mol×K	570.84	Joback Method
cpg	526.37	J/mol×K	611.25	Joback Method
cpg	548.42	J/mol×K	651.66	Joback Method
cpg	569.13	J/mol×K	692.07	Joback Method
cpg	589.00	J/mol×K	732.48	Joback Method
cpg	608.52	J/mol×K	772.89	Joback Method
cpg	628.19	J/mol×K	813.30	Joback Method

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=C469921&Units=SI

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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume