

3a,7-Methano-3aH-cyclopentacyclooctene, decahydro-1,1,7-trimethyl-, [3aS-(3a«alpha»,7«alpha»,9a«beta»)]-

Other names:	3a,7-Methano-3aH-cyclopentacyclooctene, decahydro-1,1,7-trimethyl-, clovan, Clovan
Inchi:	InChI=1S/C15H26/c1-13(2)9-10-15-7-4-6-14(3,11-15)8-5-12(13)15/h12H,4-11H2,1-3H3
InchiKey:	RKEKUXDRGCRXMQ-UHFFFAOYSA-N
Formula:	C15H26
SMILES:	CC12CCCC3(CCC(C)(C)C3CC1)C2
Mol. weight [g/mol]:	206.37
CAS:	469-91-0

Physical Properties

Property code	Value	Unit	Source
gf	197.19	kJ/mol	Joback Method
hf	-127.63	kJ/mol	Joback Method
hfus	4.89	kJ/mol	Joback Method
hvap	45.48	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.783		Crippen Method
mcvol	189.630	ml/mol	McGowan Method
pc	2287.14	kPa	Joback Method
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1525.00		NIST Webbook
ripol	1621.00		NIST Webbook
ripol	1621.00		NIST Webbook
ripol	1657.00		NIST Webbook
tb	571.68	K	Joback Method
tc	811.68	K	Joback Method
tf	369.53	K	Joback Method
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	522.31	J/mol×K	571.68	Joback Method
cpg	547.37	J/mol×K	611.68	Joback Method
cpg	570.58	J/mol×K	651.68	Joback Method
cpg	592.42	J/mol×K	691.68	Joback Method
cpg	613.35	J/mol×K	731.68	Joback Method
cpg	633.87	J/mol×K	771.68	Joback Method
cpg	654.45	J/mol×K	811.68	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=C469910&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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