1,4-Methano-1H-indene, octahydro-1,7a-dimethyl-4-(1-methylethenyl)-, [1S-(1«alpha»,3a«beta»,4«alpha»,7a«beta»)]-

Other names: Alloisolongifolene

Inchi: InChI=1S/C15H24/c1-11(2)15-8-5-7-14(4)12(15)6-9-13(14,3)10-15/h12H,1,5-10H2,2-4H3

InchiKey: MTBNHGFRLZSOTC-UHFFFAOYSA-N

Formula: C15H24

SMILES: C=C(C)C12CCCC3(C)C1CCC3(C)C2

Mol. weight [g/mol]: 204.35

CAS: 87064-18-4

Physical Properties

Property code	Value	Unit	Source
gf	300.68	kJ/mol	Joback Method
hf	0.33	kJ/mol	Joback Method
hfus	6.50	kJ/mol	Joback Method
hvap	44.54	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.559		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2280.59	kPa	Joback Method
rinpol	1409.00		NIST Webbook
rinpol	1409.00		NIST Webbook
tb	559.70	K	Joback Method
tc	792.42	K	Joback Method
tf	360.85	K	Joback Method
vc	0.714	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.32	J/mol×K	559.70	Joback Method
cpg	521.02	J/mol×K	598.49	Joback Method
cpg	541.91	J/mol×K	637.27	Joback Method
cpg	561.45	J/mol×K	676.06	Joback Method
cpg	580.10	J/mol×K	714.85	Joback Method
cpg	598.31	J/mol×K	753.63	Joback Method

cpg	616.56	J/mol×K	792.42	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=C87064184&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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