

cis-1,1,4,4-Tetramethylcyclododec-8-ene

Inchi:	InChI=1S/C16H30/c1-15(2)11-9-7-5-6-8-10-12-16(3,4)14-13-15/h5-6H,7-14H2,1-4H3/b6-
InchiKey:	FKGCSZKVSMEKRA-WAYWQWQTSA-N
Formula:	C16H30
SMILES:	CC1(C)CCCC=CCCC(C)(C)CC1
Mol. weight [g/mol]:	222.41
CAS:	15753-75-0

Physical Properties

Property code	Value	Unit	Source
gf	46.96	kJ/mol	Joback Method
hf	-288.29	kJ/mol	Joback Method
hfus	6.13	kJ/mol	Joback Method
hvap	50.35	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	5.729		Crippen Method
mcvol	221.140	ml/mol	McGowan Method
pc	1880.53	kPa	Joback Method
tb	605.62	K	Joback Method
tc	848.72	K	Joback Method
tf	300.66	K	Joback Method
vc	0.797	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.63	J/mol×K	605.62	Joback Method
cpg	625.50	J/mol×K	646.14	Joback Method
cpg	652.66	J/mol×K	686.65	Joback Method
cpg	678.34	J/mol×K	727.17	Joback Method
cpg	702.79	J/mol×K	767.68	Joback Method
cpg	726.22	J/mol×K	808.20	Joback Method
cpg	748.88	J/mol×K	848.72	Joback Method

Sources

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=C15753750&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvac:	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
vc:	Critical Volume

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