

1,5-Cyclodecadiene, 1,5-dimethyl-8-(1-methylethylidene)-, (E,E)-

Other names:

Germacrene B

Germacra-1(10),4,7(11)-triene

Germacra-1(10),4,7(11)-triene, (E,E)-

(1E,5E)-1,5-Dimethyl-8-(propan-2-ylidene)cyclodeca-1,5-diene

1,5-Cyclodecadiene, 1,5-dimethyl-8-(1-methylethylidene)-, (1E,5E)-

Inchi: InChI=1S/C15H24/c1-12(2)15-10-8-13(3)6-5-7-14(4)9-11-15/h6,9H,5,7-8,10-11H2,1-4H3

InchiKey: GXEGJTGWYVZSNR-LBJJKJHXSA-N

Formula: C15H24

SMILES: CC1=CCC(=C(C)C)CCC(C)=CCC1

Mol. weight [g/mol]: 204.35

CAS: 15423-57-1

Physical Properties

Property code	Value	Unit	Source
gf	136.75	kJ/mol	Joback Method
hf	-144.05	kJ/mol	Joback Method
hfus	17.65	kJ/mol	Joback Method
hvap	53.19	kJ/mol	Joback Method
log10ws	-5.56		Crippen Method
logp	5.179		Crippen Method
mcvol	198.450	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
rinpol	1561.00		NIST Webbook
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tb	598.70	K	Joback Method
tc	827.25	K	Joback Method
tf	279.31	K	Joback Method
vc	0.734	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.84	J/molxK	598.70	Joback Method
cpg	523.67	J/molxK	636.79	Joback Method
cpg	545.15	J/molxK	674.88	Joback Method

cpg	565.30	J/mol×K	712.98	Joback Method
cpg	584.12	J/mol×K	751.07	Joback Method
cpg	601.65	J/mol×K	789.16	Joback Method
cpg	617.88	J/mol×K	827.25	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15423571&Units=SI
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

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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