

Germacrene D

Other names:	(S,1Z,6Z)-8-Isopropyl-1-methyl-5-methylenecyclodeca-1,6-diene D-Germacrene 1(10),4(14),5-Germacatriene (-)-Germacrene D 1,6-Cyclodecadiene, 1-methyl-5-methylene-8-(1-methylethyl)-, [s-(E,E)]-
Inchi:	InChI=1S/C15H24/c1-12(2)15-10-8-13(3)6-5-7-14(4)9-11-15/h7-8,10,12,15H,3,5-6,9,11H
InchiKey:	GAIBLDCXCZKKJE-BZXLUOIMSA-N
Formula:	C15H24
SMILES:	C=C1C=CC(C(C)C)CCC(C)=CCC1
Mol. weight [g/mol]:	204.35
CAS:	23986-74-5

Physical Properties

Property code	Value	Unit	Source
gf	152.40	kJ/mol	Joback Method
hf	-140.20	kJ/mol	Joback Method
hfus	15.41	kJ/mol	Joback Method
hvap	51.12	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.891		Crippen Method
mcvol	198.450	ml/mol	McGowan Method
pc	1942.37	kPa	Joback Method
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ripol	1710.00		NIST Webbook
tb	581.25	K	Joback Method
tc	804.50	K	Joback Method
tf	264.83	K	Joback Method
vc	0.727	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.53	J/molxK	581.25	Joback Method
cpg	604.19	J/molxK	767.29	Joback Method
cpg	585.93	J/molxK	730.09	Joback Method
cpg	566.34	J/molxK	692.88	Joback Method
cpg	545.41	J/molxK	655.67	Joback Method
cpg	523.14	J/molxK	618.46	Joback Method
cpg	621.12	J/molxK	804.50	Joback Method
dvisc	0.0000689	Paxs	581.25	Joback Method
dvisc	0.0001030	Paxs	528.51	Joback Method
dvisc	0.0001684	Paxs	475.78	Joback Method
dvisc	0.0003112	Paxs	423.04	Joback Method
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Sources

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Crippen Method:	https://www.cheméo.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=C23986745&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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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