dimethyl-2,11 dodecadiene-1,11

Inchi: InChI=1S/C14H26/c1-13(2)11-9-7-5-6-8-10-12-14(3)4/h1,3,5-12H2,2,4H3
InchiKey: NVDAXWUXMBNNHQ-UHFFFAOYSA-N
Formula: C14H26
SMILES: C=C(C)CCCCCCCCC(=C)C
Mol. weight [g/mol]: 194.36

Physical Properties

Property code	Value	Unit	Source
gf	225.58	kJ/mol	Joback Method
hf	-101.01	kJ/mol	Joback Method
hfus	26.84	kJ/mol	Joback Method
hvap	45.58	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.259		Crippen Method
mcvol	199.520	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1416.00		NIST Webbook
rinpol	1416.00		NIST Webbook
ripol	1526.00		NIST Webbook
tb	512.84	K	Joback Method
tc	683.14	K	Joback Method
tf	216.10	K	Joback Method
vc	0.783	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.07	J/mol×K	512.84	Joback Method
cpg	484.79	J/mol×K	541.22	Joback Method
cpg	501.75	J/mol×K	569.61	Joback Method
cpg	517.97	J/mol×K	597.99	Joback Method
cpg	533.48	J/mol×K	626.38	Joback Method
cpg	548.31	J/mol×K	654.76	Joback Method
cpg	562.48	J/mol×K	683.14	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R242498&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

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