

dimethyl-3,10 dodecadiene-1,11

Inchi:	InChI=1S/C14H26/c1-5-13(3)11-9-7-8-10-12-14(4)6-2/h5-6,13-14H,1-2,7-12H2,3-4H3
InchiKey:	JFBXGDDBWHEUOM-UHFFFAOYSA-N
Formula:	C14H26
SMILES:	C=CC(C)CCCCCCC(C)C=C
Mol. weight [g/mol]:	194.36

Physical Properties

Property code	Value	Unit	Source
gf	237.80	kJ/mol	Joback Method
hf	-91.99	kJ/mol	Joback Method
hfus	22.41	kJ/mol	Joback Method
hvap	44.64	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	4.971		Crippen Method
mcvol	199.520	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
rinpol	1291.00		NIST Webbook
rinpol	1291.00		NIST Webbook
ripol	1436.00		NIST Webbook
tb	512.20	K	Joback Method
tc	683.51	K	Joback Method
tf	214.02	K	Joback Method
vc	0.769	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.73	J/molxK	512.20	Joback Method
cpg	550.23	J/molxK	654.96	Joback Method
cpg	535.20	J/molxK	626.41	Joback Method
cpg	519.46	J/molxK	597.86	Joback Method
cpg	502.99	J/molxK	569.30	Joback Method
cpg	485.75	J/molxK	540.75	Joback Method
cpg	564.58	J/molxK	683.51	Joback Method

dvisc	0.0001701	Paxs	512.20	Joback Method
dvisc	0.0002366	Paxs	462.50	Joback Method
dvisc	0.0003564	Paxs	412.81	Joback Method
dvisc	0.0006006	Paxs	363.11	Joback Method
dvisc	0.0011943	Paxs	313.41	Joback Method
dvisc	0.0030772	Paxs	263.72	Joback Method
dvisc	0.0123041	Paxs	214.02	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R242532&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
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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