

dimethyl-3,9 undecadiene-1,10

Inchi:	InChI=1S/C13H24/c1-5-12(3)10-8-7-9-11-13(4)6-2/h5-6,12-13H,1-2,7-11H2,3-4H3
InchiKey:	MBACLXYJQAFRPD-UHFFFAOYSA-N
Formula:	C13H24
SMILES:	C=CC(C)CCCCC(C)C=C
Mol. weight [g/mol]:	180.33

Physical Properties

Property code	Value	Unit	Source
gf	229.38	kJ/mol	Joback Method
hf	-71.35	kJ/mol	Joback Method
hfus	19.82	kJ/mol	Joback Method
hvap	42.42	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.581		Crippen Method
mcvol	185.430	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
rinpol	1195.00		NIST Webbook
ripol	1345.00		NIST Webbook
tb	489.32	K	Joback Method
tc	661.97	K	Joback Method
tf	202.75	K	Joback Method
vc	0.714	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.76	J/mol×K	489.32	Joback Method
cpg	436.16	J/mol×K	518.09	Joback Method
cpg	452.79	J/mol×K	546.87	Joback Method
cpg	468.69	J/mol×K	575.64	Joback Method
cpg	483.88	J/mol×K	604.42	Joback Method
cpg	498.38	J/mol×K	633.19	Joback Method
cpg	512.22	J/mol×K	661.97	Joback Method
dvisc	0.0131762	Paxs	202.75	Joback Method

dvisc	0.0032767	Paxs	250.51	Joback Method
dvisc	0.0012724	Paxs	298.27	Joback Method
dvisc	0.0006416	Paxs	346.04	Joback Method
dvisc	0.0003819	Paxs	393.80	Joback Method
dvisc	0.0002544	Paxs	441.56	Joback Method
dvisc	0.0001834	Paxs	489.32	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=R242547&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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