dimethyl-2,10 undecadiene-1,10

Inchi: InChI=1S/C13H24/c1-12(2)10-8-6-5-7-9-11-13(3)4/h1,3,5-11H2,2,4H3
InchiKey: ZZNYRQRAPLSWKO-UHFFFAOYSA-N
Formula: C13H24
SMILES: C=C(C)CCCCCCCC(=C)C
Mol. weight [g/mol]: 180.33

Physical Properties

Property code	Value	Unit	Source
gf	217.16	kJ/mol	Joback Method
hf	-80.37	kJ/mol	Joback Method
hfus	24.25	kJ/mol	Joback Method
hvap	43.35	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.869		Crippen Method
mcvol	185.430	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	1332.00		NIST Webbook
ripol	1436.00		NIST Webbook
tb	489.96	K	Joback Method
tc	661.54	K	Joback Method
tf	204.83	K	Joback Method
vc	0.728	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.23	J/mol×K	489.96	Joback Method
cpg	435.31	J/mol×K	518.56	Joback Method
cpg	451.66	J/mol×K	547.15	Joback Method
cpg	467.30	J/mol×K	575.75	Joback Method
cpg	482.24	J/mol×K	604.35	Joback Method
cpg	496.53	J/mol×K	632.95	Joback Method
cpg	510.18	J/mol×K	661.54	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R242483&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