cis,cis-2,12-tetradecadiene

Inchi: InChI=1S/C14H26/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3-6H,7-14H2,1-2H3/b5-3-,6-4-
InchiKey: YXFRVWVBQDUOAT-GLIMQPGKSA-N
Formula: C14H26
SMILES: CC=CCCCCCCCCC=CC
Mol. weight [g/mol]: 194.36

Physical Properties

Property code	Value	Unit	Source
gf	227.44	kJ/mol	Joback Method
hf	-97.85	kJ/mol	Joback Method
hfus	32.42	kJ/mol	Joback Method
hvap	46.67	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.259		Crippen Method
mcvol	199.520	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
rinpol	1409.00		NIST Webbook
rinpol	1409.00		NIST Webbook
tb	528.04	K	Joback Method
tc	700.73	K	Joback Method
tf	237.38	K	Joback Method
vc	0.779	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.63	J/mol×K	528.04	Joback Method
cpg	552.06	J/mol×K	671.95	Joback Method
cpg	537.44	J/mol×K	643.17	Joback Method
cpg	522.13	J/mol×K	614.39	Joback Method
cpg	506.08	J/mol×K	585.60	Joback Method
cpg	489.26	J/mol×K	556.82	Joback Method
cpg	566.01	J/mol×K	700.73	Joback Method
dvisc	0.0001316	Pa×s	528.04	Joback Method

dvisc	0.0001781	Pa×s	479.60	Joback Method
dvisc	0.0002579	Pa×s	431.15	Joback Method
dvisc	0.0004102	Pa×s	382.71	Joback Method
dvisc	0.0007466	Pa×s	334.27	Joback Method
dvisc	0.0016643	Pa×s	285.82	Joback Method
dvisc	0.0051467	Pa×s	237.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R133903&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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