

tetradecadiene-2,12

Inchi:	InChI=1S/C14H26/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3-6H,7-14H2,1-2H3
InchiKey:	YXFRVWVBQDUOAT-UHFFFAOYSA-N
Formula:	C14H26
SMILES:	CC=CCCCCCCCC=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
mvol	199.520	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
rinpol	1399.00		NIST Webbook
ripol	1420.00		NIST Webbook
tb	528.04	K	Joback Method
tc	700.73	K	Joback Method
tf	237.38	K	Joback Method
vc	0.779	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.63	J/molxK	528.04	Joback Method
cpg	489.26	J/molxK	556.82	Joback Method
cpg	506.08	J/molxK	585.60	Joback Method
cpg	522.13	J/molxK	614.39	Joback Method
cpg	537.44	J/molxK	643.17	Joback Method
cpg	552.06	J/molxK	671.95	Joback Method
cpg	566.01	J/molxK	700.73	Joback Method
dvisc	0.0051467	Paxs	237.38	Joback Method

dvisc	0.0016643	Paxs	285.82	Joback Method
dvisc	0.0007466	Paxs	334.27	Joback Method
dvisc	0.0004102	Paxs	382.71	Joback Method
dvisc	0.0002579	Paxs	431.15	Joback Method
dvisc	0.0001781	Paxs	479.60	Joback Method
dvisc	0.0001316	Paxs	528.04	Joback Method

Sources

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=R242592&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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