

tetradecadiene-2,13

Inchi:	InChI=1S/C14H26/c1-3-5-7-9-11-13-14-12-10-8-6-4-2/h3-4,6H,1,5,7-14H2,2H3/b6-4+
InchiKey:	LTOZDDGSTSOOCJ-GQCTYLIASA-N
Formula:	C14H26
SMILES:	C=CCCCCCCCC=CC
Mol. weight [g/mol]:	194.36

Physical Properties

Property code	Value	Unit	Source
gf	235.06	kJ/mol	Joback Method
hf	-89.64	kJ/mol	Joback Method
hfus	30.94	kJ/mol	Joback Method
hvap	46.05	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.259		Crippen Method
mcvol	199.520	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1409.00		NIST Webbook
rinpol	1409.00		NIST Webbook
ripol	1436.00		NIST Webbook
ripol	1436.00		NIST Webbook
tb	520.56	K	Joback Method
tc	689.34	K	Joback Method
tf	240.70	K	Joback Method
vc	0.780	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.54	J/molxK	520.56	Joback Method
cpg	549.37	J/molxK	661.21	Joback Method
cpg	534.81	J/molxK	633.08	Joback Method
cpg	519.58	J/molxK	604.95	Joback Method
cpg	503.64	J/molxK	576.82	Joback Method
cpg	486.97	J/molxK	548.69	Joback Method

cpg	563.28	J/molxK	689.34	Joback Method
dvisc	0.0001586	Paxs	520.56	Joback Method
dvisc	0.0002121	Paxs	473.92	Joback Method
dvisc	0.0003025	Paxs	427.27	Joback Method
dvisc	0.0004704	Paxs	380.63	Joback Method
dvisc	0.0008276	Paxs	333.99	Joback Method
dvisc	0.0017491	Paxs	287.34	Joback Method
dvisc	0.0049406	Paxs	240.70	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=R242601&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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