cis-3,11-heptadecadiene

Inchi: InChI=1S/C17H32/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h5,7,12,14H,3-4,6,8-11,1
InchiKey: AYSIEUUESXRQEY-XLELIILASA-N
Formula: C17H32
SMILES: CCC=CCCCCCCC=CCCCCC
Mol. weight [g/mol]: 236.44

Physical Properties

Property code	Value	Unit	Source
gf	252.70	kJ/mol	Joback Method
hf	-159.77	kJ/mol	Joback Method
hfus	40.19	kJ/mol	Joback Method
hvap	53.35	kJ/mol	Joback Method
log10ws	-6.65		Crippen Method
logp	6.430		Crippen Method
mcvol	241.790	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinpol	1657.00		NIST Webbook
ripol	1780.00		NIST Webbook
ripol	1780.00		NIST Webbook
tb	596.68	K	Joback Method
tc	766.09	K	Joback Method
tf	271.19	K	Joback Method
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.15	J/mol×K	596.68	Joback Method
cpg	648.17	J/mol×K	624.92	Joback Method
cpg	666.34	J/mol×K	653.15	Joback Method
cpg	683.69	J/mol×K	681.39	Joback Method
cpg	700.28	J/mol×K	709.62	Joback Method
cpg	716.13	J/mol×K	737.86	Joback Method
cpg	731.28	J/mol×K	766.09	Joback Method

dvisc	0.0042569	Pa×s	271.19	Joback Method
dvisc	0.0013539	Pa×s	325.44	Joback Method
dvisc	0.0005974	Pa×s	379.69	Joback Method
dvisc	0.0003234	Pa×s	433.93	Joback Method
dvisc	0.0002007	Pa×s	488.18	Joback Method
dvisc	0.0001370	Pa×s	542.43	Joback Method
dvisc	0.0001002	Pa×s	596.68	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=R485675&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
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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