cis-8-Heptadecene

Other names: (Z)-Heptadec-8-ene
(Z)-n-heptadec-8-ene
(Z)-8-Heptadecene
Inchi: InChI=1S/C17H34/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h15,17H,3-14,16H2,1-2H
InchiKey: BIQKRILZMDQPHI-ICFOKQHNSA-N
Formula: C17H34
SMILES: CCCCCCCC=CCCCCCCCC
Mol. weight [g/mol]: 238.45

Physical Properties

Property code	Value	Unit	Source
gf	172.48	kJ/mol	Joback Method
hf	-276.99	kJ/mol	Joback Method
hfus	39.99	kJ/mol	Joback Method
hvap	53.39	kJ/mol	Joback Method
log10ws	-6.79		Crippen Method
logp	6.654		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	1665.60		NIST Webbook
rinpol	1666.00		NIST Webbook
rinpol	1664.40		NIST Webbook
ripol	1699.00		NIST Webbook
ripol	1699.20		NIST Webbook
tb	592.52	K	Joback Method
tc	756.35	K	Joback Method
tf	276.27	K	Joback Method
vc	0.968	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.17	J/mol×K	592.52	Joback Method
cpg	667.50	J/mol×K	619.83	Joback Method

cpg	686.02	J/mol×K	647.13	Joback Method
cpg	703.76	J/mol×K	674.44	Joback Method
cpg	720.76	J/mol×K	701.74	Joback Method
cpg	737.03	J/mol×K	729.05	Joback Method
cpg	752.62	J/mol×K	756.35	Joback Method
dvisc	0.0044937	Pa×s	276.27	Joback Method
dvisc	0.0015040	Pa×s	328.98	Joback Method
dvisc	0.0006810	Pa×s	381.69	Joback Method
dvisc	0.0003738	Pa×s	434.39	Joback Method
dvisc	0.0002336	Pa×s	487.10	Joback Method
dvisc	0.0001600	Pa×s	539.81	Joback Method
dvisc	0.0001172	Pa×s	592.52	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=R146984&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