3-Heptadecene, (z)-

Other names: cis-3-Heptadecene
(Z)-3-Heptadecene
Inchi: InChI=1S/C17H34/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h5,7H,3-4,6,8-17H2,1-2H
InchiKey: YICJXYRVTBRLKS-ALCCZGGFSA-N
Formula: C17H34
SMILES: CC/C=C\CCCCCCCCCCCCC
Mol. weight [g/mol]: 238.46

Physical Properties

Property code	Value	Unit	Source
af	0.6865		Cheméo Relay (1.0)
gf	172.48	kJ/mol	Joback Method
hf	-296.67	kJ/mol	Cheméo Relay (1.0)
hfus	39.99	kJ/mol	Joback Method
hvap	81.90	kJ/mol	Cheméo Relay (1.0)
ie	9.01	eV	Cheméo Relay (1.0)
log10ws	-7.31		Cheméo Relay (1.0)
logp	6.654		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	1692.00		NIST Webbook
rinpol	1687.40		NIST Webbook
rinpol	1688.70		NIST Webbook
ripol	1723.00		NIST Webbook
ripol	1756.00		NIST Webbook
ripol	1722.60		NIST Webbook
tb	548.38	K	Cheméo Relay (1.0)
tc	722.34	K	Cheméo Relay (1.0)
tf	251.73	K	Cheméo Relay (1.0)
vc	0.964	m3/kmol	Cheméo Relay (1.0)

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: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U141673&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

af: Acentric Factor

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

ie: Ionization energy

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