(E)-8-Heptadecene

Other names: Heptadec-8-ene
trans-8-Heptadecene
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-BMRADRMJSA-N
Formula: C17H34
SMILES: CCCCCCC/C=C/CCCCCCCC
Mol. weight [g/mol]: 238.46
CAS: 54290-12-9

Physical Properties

Property code	Value	Unit	Source
af	0.6852		Cheméo Relay (1.0)
gf	172.48	kJ/mol	Joback Method
hf	-290.03	kJ/mol	Cheméo Relay (1.0)
hfus	39.99	kJ/mol	Joback Method
hvap	85.12	kJ/mol	Cheméo Relay (1.0)
ie	8.91	eV	Cheméo Relay (1.0)
log10ws	-7.51		Cheméo Relay (1.0)
logp	6.654		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	1676.00		NIST Webbook
rinpol	1676.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1676.00		NIST Webbook
rinpol	1670.00		NIST Webbook
rinpol	1673.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1674.00		NIST Webbook
rinpol	1679.00		NIST Webbook
rinpol	1704.00		NIST Webbook
rinpol	1677.00		NIST Webbook
ripol	1705.00		NIST Webbook
ripol	1705.30		NIST Webbook

ripol	1718.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1718.00		NIST Webbook
tb	550.73	K	Cheméo Relay (1.0)
tc	729.02	K	Cheméo Relay (1.0)
tf	264.65	K	Cheméo Relay (1.0)
vc	0.971	m3/kmol	Cheméo Relay (1.0)

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	-2.67470e+01
Coeff. B	1.63884e+00
Coeff. C	-9.84800e-04
Coeff. D	2.38500e-07
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Information	Value
Property code	dvisc
Equation	Y = exp(A + B/T + C·ln(T) + D·T^E)
Y unit	Pa×s
Coeff. A	-1.22368e+01
Coeff. B	1.88740e+03
Coeff. C	0.00000e+00
Coeff. D	0.00000e+00
Coeff. E	0.00000e+00
Basis	predicted
Comment	Liquid phase. Joback/Reid (1987), valid from Tf to 0.7·Tc.
Temperature range (K), min.	276.27
Temperature range (K), max.	529.63

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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=C54290129&Units=SI

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

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