

8-Heptadecene

Other names:	trans-8-Heptadecene Heptadec-8-ene (E)-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:	CCCCCCCC=CCCCCCCC
Mol. weight [g/mol]:	238.45
CAS:	54290-12-9

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	1674.00		NIST Webbook
rinpol	1679.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1676.00		NIST Webbook
rinpol	1670.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1676.00		NIST Webbook
rinpol	1704.00		NIST Webbook
rinpol	1673.00		NIST Webbook
rinpol	1677.00		NIST Webbook
rinpol	1676.00		NIST Webbook
rinpol	1680.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1705.00		NIST Webbook

ripol	1705.30		NIST Webbook
ripol	1718.00		NIST Webbook
ripol	1712.00		NIST Webbook
tb	592.52	K	Joback Method
tc	756.35	K	Joback Method
tf	276.27	K	Joback Method
vc	0.968	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.17	J/molxK	592.52	Joback Method
cpg	737.03	J/molxK	729.05	Joback Method
cpg	720.76	J/molxK	701.74	Joback Method
cpg	703.76	J/molxK	674.44	Joback Method
cpg	686.02	J/molxK	647.13	Joback Method
cpg	667.50	J/molxK	619.83	Joback Method
cpg	752.62	J/molxK	756.35	Joback Method
dvisc	0.0001172	Paxs	592.52	Joback Method
dvisc	0.0001600	Paxs	539.81	Joback Method
dvisc	0.0002336	Paxs	487.10	Joback Method
dvisc	0.0003738	Paxs	434.39	Joback Method
dvisc	0.0006810	Paxs	381.69	Joback Method
dvisc	0.0015040	Paxs	328.98	Joback Method
dvisc	0.0044937	Paxs	276.27	Joback Method

Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C54290129&Units=SI>

Crippen Method:

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

Crippen Method:

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

Joback Method:

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

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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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