Z-8-HEXADECENE

Other names: cis-8-Hexadecene
8-Hexadecene, (Z)
Inchi: InChI=1S/C16H32/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h15-16H,3-14H2,1-2H3/b16
InchiKey: KWEAIXVWPDMXCR-NXVVXOECSA-N
Formula: C16H32
SMILES: CCCCCCC/C=C\CCCCCCC
Mol. weight [g/mol]: 224.43

Physical Properties

Property code	Value	Unit	Source
af	0.6535		Cheméo Relay (1.0)
gf	164.06	kJ/mol	Joback Method
hf	-279.68	kJ/mol	Cheméo Relay (1.0)
hfus	37.40	kJ/mol	Joback Method
hvap	75.68	kJ/mol	Cheméo Relay (1.0)
ie	8.90	eV	Cheméo Relay (1.0)
log10ws	-7.01		Cheméo Relay (1.0)
logp	6.264		Crippen Method
mcvol	232.000	ml/mol	McGowan Method
pc	1369.71	kPa	Joback Method
rinpol	1564.00		NIST Webbook
rinpol	1564.00		NIST Webbook
rinpol	1567.20		NIST Webbook
rinpol	1568.10		NIST Webbook
rinpol	1567.20		NIST Webbook
ripol	1603.00		NIST Webbook
ripol	1602.60		NIST Webbook
tb	538.08	K	Cheméo Relay (1.0)
tc	707.48	K	Cheméo Relay (1.0)
tf	239.51	K	Cheméo Relay (1.0)
vc	0.908	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.58	J/mol×K	569.64	Joback Method
cpg	695.67	J/mol×K	733.96	Joback Method
cpg	680.43	J/mol×K	706.57	Joback Method
cpg	664.52	J/mol×K	679.18	Joback Method
cpg	647.91	J/mol×K	651.80	Joback Method
cpg	630.57	J/mol×K	624.41	Joback Method
cpg	612.46	J/mol×K	597.03	Joback Method
dvisc	0.0004092	Pa×s	417.32	Joback Method
dvisc	0.0001297	Pa×s	569.64	Joback Method
dvisc	0.0001765	Pa×s	518.87	Joback Method
dvisc	0.0002567	Pa×s	468.09	Joback Method
dvisc	0.0048369	Pa×s	265.00	Joback Method
dvisc	0.0007420	Pa×s	366.55	Joback Method
dvisc	0.0016294	Pa×s	315.77	Joback Method

Sources

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=U130875&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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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