

cis-6-Pentadecene

Other names:	(Z)-6-Pentadecene
Inchi:	InChI=1S/C15H30/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h11,13H,3-10,12,14-15H2,1-2H
InchiKey:	BEPREHKVBQHGMMZ-QBFSEMIESA-N
Formula:	C15H30
SMILES:	CCCCC=CCCCCCCC
Mol. weight [g/mol]:	210.40

Physical Properties

Property code	Value	Unit	Source
gf	155.64	kJ/mol	Joback Method
hf	-235.71	kJ/mol	Joback Method
hfus	34.81	kJ/mol	Joback Method
hvap	48.94	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.873		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1472.49	kPa	Joback Method
rinpol	1472.20		NIST Webbook
rinpol	1473.30		NIST Webbook
rinpol	1469.00		NIST Webbook
rinpol	1469.10		NIST Webbook
rinpol	1470.00		NIST Webbook
ripol	1508.90		NIST Webbook
ripol	1509.00		NIST Webbook
tb	546.76	K	Joback Method
tc	711.80	K	Joback Method
tf	253.73	K	Joback Method
vc	0.856	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.45	J/molxK	546.76	Joback Method
cpg	625.10	J/molxK	684.29	Joback Method

cpg	609.60	J/molxK	656.78	Joback Method
cpg	593.41	J/molxK	629.28	Joback Method
cpg	576.50	J/molxK	601.77	Joback Method
cpg	558.86	J/molxK	574.27	Joback Method
cpg	639.95	J/molxK	711.80	Joback Method
dvisc	0.0001425	Paxs	546.76	Joback Method
dvisc	0.0001932	Paxs	497.92	Joback Method
dvisc	0.0002801	Paxs	449.08	Joback Method
dvisc	0.0004444	Paxs	400.25	Joback Method
dvisc	0.0008016	Paxs	351.41	Joback Method
dvisc	0.0017495	Paxs	302.57	Joback Method
dvisc	0.0051562	Paxs	253.73	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R98010&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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