

1,15-Hexadecadiene

Other names:	Hexadecadiene-1,15
Inchi:	InChI=1S/C16H30/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h3-4H,1-2,5-16H2
InchiKey:	JEJVUMPKJVMOEZ-UHFFFAOYSA-N
Formula:	C16H30
SMILES:	C=CCCCCCCCCCCCC=C
Mol. weight [g/mol]:	222.41
CAS:	21964-51-2

Physical Properties

Property code	Value	Unit	Source
gf	259.52	kJ/mol	Joback Method
hf	-122.71	kJ/mol	Joback Method
hfus	34.64	kJ/mol	Joback Method
hvap	49.87	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	6.040		Crippen Method
mcvol	227.700	ml/mol	McGowan Method
pc	1402.74	kPa	Joback Method
rinpol	1577.00		NIST Webbook
rinpol	1581.00		NIST Webbook
rinpol	1581.00		NIST Webbook
ripol	1708.00		NIST Webbook
tb	558.84	K	Joback Method
tc	722.17	K	Joback Method
tf	266.56	K	Joback Method
vc	0.893	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	570.22	J/mol×K	558.84	Joback Method
cpg	588.53	J/mol×K	586.06	Joback Method
cpg	606.07	J/mol×K	613.28	Joback Method
cpg	622.87	J/mol×K	640.51	Joback Method

cpg	638.96	J/mol×K	667.73	Joback Method
cpg	654.36	J/mol×K	694.95	Joback Method
cpg	669.11	J/mol×K	722.17	Joback Method
dvisc	0.0044277	Pa×s	266.56	Joback Method
dvisc	0.0016656	Pa×s	315.27	Joback Method
dvisc	0.0008140	Pa×s	363.99	Joback Method
dvisc	0.0004711	Pa×s	412.70	Joback Method
dvisc	0.0003060	Pa×s	461.41	Joback Method
dvisc	0.0002158	Pa×s	510.13	Joback Method
dvisc	0.0001618	Pa×s	558.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21964512&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
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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