

Hexadecene

Inchi:	InChI=1S/C16H32/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h3H,1,4-16H2,2H3
InchiKey:	GQEZCXVZFLOKMC-UHFFFAOYSA-N
Formula:	C16H32
SMILES:	C=CCCCCCCCCCCCCCC
Mol. weight [g/mol]:	224.43
CAS:	26952-14-7

Physical Properties

Property code	Value	Unit	Source
gf	171.68	kJ/mol	Joback Method
hf	-248.14	kJ/mol	Joback Method
hfus	35.92	kJ/mol	Joback Method
hvap	50.54	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	6.264		Crippen Method
mcvol	232.000	ml/mol	McGowan Method
pc	1359.63	kPa	Joback Method
rinpol	1592.00		NIST Webbook
rinpol	1613.00		NIST Webbook
rinpol	1596.00		NIST Webbook
rinpol	1592.00		NIST Webbook
ripol	1630.00		NIST Webbook
tb	562.16	K	Joback Method
tc	723.12	K	Joback Method
tf	268.32	K	Joback Method
vc	0.912	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.88	J/molxK	562.16	Joback Method
cpg	609.62	J/molxK	588.99	Joback Method
cpg	627.60	J/molxK	615.81	Joback Method
cpg	644.86	J/molxK	642.64	Joback Method

cpg	661.40	J/molxK	669.47	Joback Method
cpg	677.27	J/molxK	696.30	Joback Method
cpg	692.47	J/molxK	723.12	Joback Method
dvisc	0.0047648	Paxs	268.32	Joback Method
dvisc	0.0017394	Paxs	317.29	Joback Method
dvisc	0.0008313	Paxs	366.27	Joback Method
dvisc	0.0004729	Paxs	415.24	Joback Method
dvisc	0.0003030	Paxs	464.21	Joback Method
dvisc	0.0002114	Paxs	513.19	Joback Method
dvisc	0.0001570	Paxs	562.16	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26952147&Units=SI

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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