

6(E),8(E)-Heptadecadiene

Inchi:	InChI=1S/C17H32/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h11,13,15,17H,3-10,12,1
InchiKey:	JDQICSQQNYKNLY-SBLPRGNDSA-N
Formula:	C17H32
SMILES:	CCCCC=CC=CCCCCCCC
Mol. weight [g/mol]:	236.44

Physical Properties

Property code	Value	Unit	Source
gf	252.70	kJ/mol	Joback Method
hf	-159.77	kJ/mol	Joback Method
hfus	40.19	kJ/mol	Joback Method
hvap	53.35	kJ/mol	Joback Method
log10ws	-6.65		Crippen Method
logp	6.430		Crippen Method
mcvol	241.790	ml/mol	McGowan Method
pc	1326.17	kPa	Joback Method
rinsol	1669.00		NIST Webbook
tb	596.68	K	Joback Method
tc	766.09	K	Joback Method
tf	271.19	K	Joback Method
vc	0.948	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.15	J/molxK	596.68	Joback Method
cpg	648.17	J/molxK	624.92	Joback Method
cpg	666.34	J/molxK	653.15	Joback Method
cpg	683.69	J/molxK	681.39	Joback Method
cpg	700.28	J/molxK	709.62	Joback Method
cpg	716.13	J/molxK	737.86	Joback Method
cpg	731.28	J/molxK	766.09	Joback Method
dvisc	0.0042569	Paxs	271.19	Joback Method
dvisc	0.0013539	Paxs	325.44	Joback Method

dvisc	0.0005974	Paxs	379.69	Joback Method
dvisc	0.0003234	Paxs	433.93	Joback Method
dvisc	0.0002007	Paxs	488.18	Joback Method
dvisc	0.0001370	Paxs	542.43	Joback Method
dvisc	0.0001002	Paxs	596.68	Joback Method

Sources

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=R626752&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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