

octadecadiene-1,17

Inchi:	InChI=1S/C18H34/c1-3-5-7-9-11-13-15-17-18-16-14-12-10-8-6-4-2/h3-4H,1-2,5-18H2
InchiKey:	GUYLTGCUWGGXHD-UHFFFAOYSA-N
Formula:	C18H34
SMILES:	C=CCCCCCCCCCCCCCC=C
Mol. weight [g/mol]:	250.46

Physical Properties

Property code	Value	Unit	Source
gf	276.36	kJ/mol	Joback Method
hf	-163.99	kJ/mol	Joback Method
hfus	39.82	kJ/mol	Joback Method
hvap	54.32	kJ/mol	Joback Method
log10ws	-7.06		Crippen Method
logp	6.820		Crippen Method
mcvol	255.880	ml/mol	McGowan Method
pc	1220.85	kPa	Joback Method
rinpol	1781.00		NIST Webbook
rinpol	1781.00		NIST Webbook
ripol	1891.00		NIST Webbook
ripol	1891.00		NIST Webbook
tb	604.60	K	Joback Method
tc	767.18	K	Joback Method
tf	289.10	K	Joback Method
vc	1.006	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.10	J/molxK	604.60	Joback Method
cpg	767.31	J/molxK	740.09	Joback Method
cpg	751.17	J/molxK	712.99	Joback Method
cpg	734.31	J/molxK	685.89	Joback Method
cpg	716.70	J/molxK	658.79	Joback Method
cpg	698.30	J/molxK	631.70	Joback Method

cpg	782.76	J/mol×K	767.18	Joback Method
dvisc	0.0001330	Paxs	604.60	Joback Method
dvisc	0.0001787	Paxs	552.02	Joback Method
dvisc	0.0002555	Paxs	499.43	Joback Method
dvisc	0.0003974	Paxs	446.85	Joback Method
dvisc	0.0006954	Paxs	394.27	Joback Method
dvisc	0.0014458	Paxs	341.68	Joback Method
dvisc	0.0039225	Paxs	289.10	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R242572&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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