

1-Tetradecene, 8-butyl

Inchi:	InChI=1S/C18H36/c1-4-7-10-12-14-17-18(15-9-6-3)16-13-11-8-5-2/h4,18H,1,5-17H2,2-3
InchiKey:	SQXBFBCGAKKMRZ-UHFFFAOYSA-N
Formula:	C18H36
SMILES:	C=CCCCCCC(CCCC)CCCCC
Mol. weight [g/mol]:	252.48

Physical Properties

Property code	Value	Unit	Source
gf	186.08	kJ/mol	Joback Method
hf	-294.70	kJ/mol	Joback Method
hfus	37.57	kJ/mol	Joback Method
hvap	54.60	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	6.900		Crippen Method
mcvol	260.180	ml/mol	McGowan Method
pc	1192.35	kPa	Joback Method
rinpol	1678.00		NIST Webbook
tb	607.48	K	Joback Method
tc	770.34	K	Joback Method
tf	275.86	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.50	J/molxK	607.48	Joback Method
cpg	721.46	J/molxK	634.62	Joback Method
cpg	740.58	J/molxK	661.77	Joback Method
cpg	758.90	J/molxK	688.91	Joback Method
cpg	776.45	J/molxK	716.06	Joback Method
cpg	793.24	J/molxK	743.20	Joback Method
cpg	809.31	J/molxK	770.34	Joback Method
dvisc	0.0059795	Paxs	275.86	Joback Method
dvisc	0.0018068	Paxs	331.13	Joback Method

dvisc	0.0007688	Paxs	386.40	Joback Method
dvisc	0.0004052	Paxs	441.67	Joback Method
dvisc	0.0002462	Paxs	496.94	Joback Method
dvisc	0.0001653	Paxs	552.21	Joback Method
dvisc	0.0001193	Paxs	607.48	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=R46726&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
mcvol:	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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