

9,12-Octadecadienol

Other names:	9,12-Octadecadien-1-ol
Inchi:	InChI=1S/C18H34O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h6-7,9-10,19H,2
InchiKey:	JXNPEDYJTDQORS-AVQMFFATSA-N
Formula:	C18H34O
SMILES:	CCCCC=CCC=CCCCCCCCCO
Mol. weight [g/mol]:	266.46
CAS:	1577-52-2

Physical Properties

Property code	Value	Unit	Source
gf	124.30	kJ/mol	Joback Method
hf	-332.64	kJ/mol	Joback Method
hfus	46.87	kJ/mol	Joback Method
hvap	72.26	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	5.792		Crippen Method
mcvol	261.750	ml/mol	McGowan Method
pc	1322.31	kPa	Joback Method
tb	711.74	K	Joback Method
tc	881.52	K	Joback Method
tf	270.00 ± 5.00	K	NIST Webbook
vc	1.022	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.54	J/mol×K	711.74	Joback Method
cpg	840.26	J/mol×K	853.23	Joback Method
cpg	826.06	J/mol×K	824.93	Joback Method
cpg	811.22	J/mol×K	796.63	Joback Method
cpg	795.72	J/mol×K	768.33	Joback Method
cpg	779.51	J/mol×K	740.04	Joback Method
cpg	853.88	J/mol×K	881.52	Joback Method
dvisc	0.0000208	Pa×s	711.74	Joback Method

dvisc	0.0000339	Pa×s	650.33	Joback Method
dvisc	0.0000611	Pa×s	588.92	Joback Method
dvisc	0.0001263	Pa×s	527.51	Joback Method
dvisc	0.0003165	Pa×s	466.10	Joback Method
dvisc	0.0010481	Pa×s	404.69	Joback Method
dvisc	0.0053256	Pa×s	343.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1577522&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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