

(E)-3-(E)-13-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/h5-6,15-16,19H,
InchiKey:	QBNCGBJHGBGHLS-ICYHVJMASA-N
Formula:	C18H34O
SMILES:	CCCC=CCCCCCCCCCC=CCO
Mol. weight [g/mol]:	266.46

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
rinpol	2056.00		NIST Webbook
rinpol	2056.00		NIST Webbook
ripol	2125.00		NIST Webbook
ripol	2125.00		NIST Webbook
tb	711.74	K	Joback Method
tc	881.52	K	Joback Method
tf	343.28	K	Joback Method
vc	1.022	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.54	J/molxK	711.74	Joback Method
cpg	840.26	J/molxK	853.23	Joback Method
cpg	826.06	J/molxK	824.93	Joback Method
cpg	811.22	J/molxK	796.63	Joback Method
cpg	795.72	J/molxK	768.33	Joback Method
cpg	779.51	J/molxK	740.04	Joback Method

cpg	853.88	J/mol×K	881.52	Joback Method
dvisc	0.0000208	Paxs	711.74	Joback Method
dvisc	0.0000339	Paxs	650.33	Joback Method
dvisc	0.0000611	Paxs	588.92	Joback Method
dvisc	0.0001263	Paxs	527.51	Joback Method
dvisc	0.0003165	Paxs	466.10	Joback Method
dvisc	0.0010481	Paxs	404.69	Joback Method
dvisc	0.0053256	Paxs	343.28	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R571756&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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