Z-9,11-dodecadien-1-ol

Inchi: InChI=1S/C12H22O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h2-4,13H,1,5-12H2/b4-3-
InchiKey: OIMIXJLPIJKPDM-ARJAWSKDSA-N
Formula: C12H22O
SMILES: C=CC=CCCCCCCCCO
Mol. weight [g/mol]: 182.30

Physical Properties

Property code	Value	Unit	Source
gf	81.40	kJ/mol	Joback Method
hf	-200.59	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	58.27	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.452		Crippen Method
mcvol	177.210	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinpol	1502.00		NIST Webbook
tb	566.98	K	Joback Method
tc	732.65	K	Joback Method
tf	278.98	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.19	J/mol×K	566.98	Joback Method
cpg	452.91	J/mol×K	594.59	Joback Method
cpg	466.01	J/mol×K	622.20	Joback Method
cpg	478.54	J/mol×K	649.82	Joback Method
cpg	490.51	J/mol×K	677.43	Joback Method
cpg	501.95	J/mol×K	705.04	Joback Method
cpg	512.88	J/mol×K	732.65	Joback Method
dvisc	0.0201966	Pa×s	278.98	Joback Method
dvisc	0.0040130	Pa×s	326.98	Joback Method

dvisc	0.0012060	Pa×s	374.98	Joback Method
dvisc	0.0004761	Pa×s	422.98	Joback Method
dvisc	0.0002272	Pa×s	470.98	Joback Method
dvisc	0.0001243	Pa×s	518.98	Joback Method
dvisc	0.0000753	Pa×s	566.98	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R501158&Units=SI

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