

(E)-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-ONEGZZNKSA-N
Formula:	C12H22O
SMILES:	C=CC=CCCCCCCCCO
Mol. weight [g/mol]:	182.30
CAS:	55110-79-7

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	1501.00		NIST Webbook
rinpol	1501.00		NIST Webbook
tb	566.98	K	Joback Method
tc	732.65	K	Joback Method
tf	278.98	K	Joback Method
vc	0.688	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0000753	Paxs	566.98	Joback Method
dvisc	0.0001243	Paxs	518.98	Joback Method
dvisc	0.0002272	Paxs	470.98	Joback Method
dvisc	0.0004761	Paxs	422.98	Joback Method
dvisc	0.0012060	Paxs	374.98	Joback Method
dvisc	0.0040130	Paxs	326.98	Joback Method
dvisc	0.0201966	Paxs	278.98	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=C55110797&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
mvol:	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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