(E,Z)-3,5-octadien-1-ol

Inchi: InChI=1S/C8H14O/c1-2-3-4-5-6-7-8-9/h3-6,9H,2,7-8H2,1H3/b4-3-,6-5+
InchiKey: ZVVFQUSSYQVVJC-DNVGVPOPSA-N
Formula: C8H14O
SMILES: CCC=CC=CCCO
Mol. weight [g/mol]: 126.20

Physical Properties

Property code	Value	Unit	Source
gf	40.10	kJ/mol	Joback Method
hf	-126.24	kJ/mol	Joback Method
hfus	20.97	kJ/mol	Joback Method
hvap	50.00	kJ/mol	Joback Method
log10ws	-2.14		Crippen Method
logp	1.891		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
ripol	1736.00		NIST Webbook
ripol	1736.00		NIST Webbook
tb	482.94	K	Joback Method
tc	657.05	K	Joback Method
tf	230.58	K	Joback Method
vc	0.463	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.27	J/mol×K	482.94	Joback Method
cpg	267.05	J/mol×K	511.96	Joback Method
cpg	277.30	J/mol×K	540.98	Joback Method
cpg	287.03	J/mol×K	570.00	Joback Method
cpg	296.28	J/mol×K	599.01	Joback Method
cpg	305.08	J/mol×K	628.03	Joback Method
cpg	313.44	J/mol×K	657.05	Joback Method
dvisc	0.0584069	Pa×s	230.58	Joback Method

dvisc	0.0093657	Pa×s	272.64	Joback Method
dvisc	0.0024496	Pa×s	314.70	Joback Method
dvisc	0.0008790	Pa×s	356.76	Joback Method
dvisc	0.0003915	Pa×s	398.82	Joback Method
dvisc	0.0002035	Pa×s	440.88	Joback Method
dvisc	0.0001185	Pa×s	482.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R329347&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume