oct-4-en-1-ol

Inchi: InChI=1S/C8H16O/c1-2-3-4-5-6-7-8-9/h4-5,9H,2-3,6-8H2,1H3/b5-4+
InchiKey: OZQBPZSICOOLGU-SNAWJCMRSA-N
Formula: C8H16O
SMILES: CCCC=CCCCO
Mol. weight [g/mol]: 128.21
CAS: 67700-26-9

Physical Properties

Property code	Value	Unit	Source
gf	-40.12	kJ/mol	Joback Method
hf	-243.46	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	50.04	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.115		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2947.28	kPa	Joback Method
ripol	1612.00		NIST Webbook
tb	478.78	K	Joback Method
tc	645.49	K	Joback Method
tf	235.66	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.29	J/mol×K	478.78	Joback Method
cpg	284.49	J/mol×K	506.57	Joback Method
cpg	295.20	J/mol×K	534.35	Joback Method
cpg	305.44	J/mol×K	562.14	Joback Method
cpg	315.25	J/mol×K	589.92	Joback Method
cpg	324.63	J/mol×K	617.71	Joback Method
cpg	333.60	J/mol×K	645.49	Joback Method
dvisc	0.0553869	Pa×s	235.66	Joback Method

dvisc	0.0099375	Pa×s	276.18	Joback Method
dvisc	0.0027674	Pa×s	316.70	Joback Method
dvisc	0.0010300	Pa×s	357.22	Joback Method
dvisc	0.0004689	Pa×s	397.74	Joback Method
dvisc	0.0002469	Pa×s	438.26	Joback Method
dvisc	0.0001449	Pa×s	478.78	Joback Method

Sources

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=C67700269&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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