(E)-4, (Z)-7-decadienol-1

Inchi: InChI=1S/C10H18O/c1-2-3-4-5-6-7-8-9-10-11/h3-4,6-7,11H,2,5,8-10H2,1H3/b4-3-,7-6+
InchiKey: NKODDQZVUPANMP-WWVFNRLHSA-N
Formula: C10H18O
SMILES: CCC=CCC=CCCCO
Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
gf	56.94	kJ/mol	Joback Method
hf	-167.52	kJ/mol	Joback Method
hfus	26.15	kJ/mol	Joback Method
hvap	54.45	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.671		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
tb	528.70	K	Joback Method
tc	700.08	K	Joback Method
tf	253.12	K	Joback Method
vc	0.575	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.77	J/mol×K	528.70	Joback Method
cpg	357.22	J/mol×K	557.26	Joback Method
cpg	369.07	J/mol×K	585.83	Joback Method
cpg	380.36	J/mol×K	614.39	Joback Method
cpg	391.12	J/mol×K	642.95	Joback Method
cpg	401.38	J/mol×K	671.51	Joback Method
cpg	411.16	J/mol×K	700.08	Joback Method
dvisc	0.0350795	Pa×s	253.12	Joback Method
dvisc	0.0059497	Pa×s	299.05	Joback Method
dvisc	0.0016185	Pa×s	344.98	Joback Method

dvisc	0.0005979	Pa×s	390.91	Joback Method
dvisc	0.0002723	Pa×s	436.84	Joback Method
dvisc	0.0001440	Pa×s	482.77	Joback Method
dvisc	0.0000851	Pa×s	528.70	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=R327232&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume