decene-2-ol-4

Inchi: InChI=1S/C10H20O/c1-3-5-6-7-9-10(11)8-4-2/h4,8,10-11H,3,5-7,9H2,1-2H3/b8-4+
InchiKey: XJMAJAGAHDFDLE-XBXARRHUSA-N
Formula: C10H20O
SMILES: CC=CC(O)CCCCCC
Mol. weight [g/mol]: 156.27

Physical Properties

Property code	Value	Unit	Source
gf	-25.72	kJ/mol	Joback Method
hf	-290.02	kJ/mol	Joback Method
hfus	22.42	kJ/mol	Joback Method
hvap	54.10	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	2.894		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinpol	1059.00		NIST Webbook
rinpol	1059.00		NIST Webbook
ripol	1460.00		NIST Webbook
ripol	1460.00		NIST Webbook
tb	524.10	K	Joback Method
tc	691.87	K	Joback Method
tf	243.20	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.07	J/mol×K	524.10	Joback Method
cpg	376.23	J/mol×K	552.06	Joback Method
cpg	388.81	J/mol×K	580.02	Joback Method
cpg	400.85	J/mol×K	607.98	Joback Method
cpg	412.35	J/mol×K	635.95	Joback Method
cpg	423.36	J/mol×K	663.91	Joback Method

cpg	433.87	J/mol×K	691.87	Joback Method
dvisc	0.0698968	Pa×s	243.20	Joback Method
dvisc	0.0096333	Pa×s	290.02	Joback Method
dvisc	0.0023033	Pa×s	336.83	Joback Method
dvisc	0.0007809	Pa×s	383.65	Joback Method
dvisc	0.0003350	Pa×s	430.47	Joback Method
dvisc	0.0001696	Pa×s	477.28	Joback Method
dvisc	0.0000970	Pa×s	524.10	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=R242478&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume