(Z)10-Dodecen-1-ol

Inchi: InChI=1S/C13H26O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14/h3-4,14H,2,5-13H2,1H3/b4-3-
InchiKey: MSSXLNVNZXUONF-ARJAWSKDSA-N
Formula: C13H26O
SMILES: CCC=CCCCCCCCCCO
Mol. weight [g/mol]: 198.34

Physical Properties

Property code	Value	Unit	Source
gf	1.98	kJ/mol	Joback Method
hf	-346.66	kJ/mol	Joback Method
hfus	33.72	kJ/mol	Joback Method
hvap	61.17	kJ/mol	Joback Method
log10ws	-4.38		Crippen Method
logp	4.066		Crippen Method
mcvol	195.600	ml/mol	McGowan Method
pc	1854.71	kPa	Joback Method
ripol	2090.00		NIST Webbook
ripol	2045.00		NIST Webbook
ripol	2090.00		NIST Webbook
tb	593.18	K	Joback Method
tc	756.04	K	Joback Method
tf	292.01	K	Joback Method
vc	0.762	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.30	J/mol×K	593.18	Joback Method
cpg	525.14	J/mol×K	620.32	Joback Method
cpg	539.35	J/mol×K	647.47	Joback Method
cpg	552.96	J/mol×K	674.61	Joback Method
cpg	566.00	J/mol×K	701.75	Joback Method
cpg	578.48	J/mol×K	728.90	Joback Method
cpg	590.43	J/mol×K	756.04	Joback Method

dvisc	0.0165809	Pa×s	292.01	Joback Method
dvisc	0.0032726	Pa×s	342.20	Joback Method
dvisc	0.0009783	Pa×s	392.40	Joback Method
dvisc	0.0003846	Pa×s	442.60	Joback Method
dvisc	0.0001829	Pa×s	492.79	Joback Method
dvisc	0.0000998	Pa×s	542.99	Joback Method
dvisc	0.0000603	Pa×s	593.18	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=R78107&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume