10-hexadecenol, Z

Other names: (Z)10-Hexadecen-1-ol
Inchi: InChI=1S/C17H34O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18/h7-8,18H,2-6,9-17H
InchiKey: KUZMLQQNGHYFDP-FPLPWBNLSA-N
Formula: C17H34O
SMILES: CCCCCCC=CCCCCCCCCCO
Mol. weight [g/mol]: 254.45

Physical Properties

Property code	Value	Unit	Source
gf	35.66	kJ/mol	Joback Method
hf	-429.22	kJ/mol	Joback Method
hfus	44.08	kJ/mol	Joback Method
hvap	70.07	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.626		Crippen Method
mcvol	251.960	ml/mol	McGowan Method
pc	1365.67	kPa	Joback Method
rinpol	1867.00		NIST Webbook
rinpol	1867.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2419.00		NIST Webbook
tb	684.70	K	Joback Method
tc	849.49	K	Joback Method
tf	337.09	K	Joback Method
vc	0.987	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	727.69	J/mol×K	684.70	Joback Method
cpg	744.66	J/mol×K	712.17	Joback Method
cpg	760.91	J/mol×K	739.63	Joback Method
cpg	776.46	J/mol×K	767.10	Joback Method
cpg	791.33	J/mol×K	794.56	Joback Method

cpg	805.57	J/mol×K	822.03	Joback Method
cpg	819.20	J/mol×K	849.49	Joback Method
dvisc	0.0066810	Pa×s	337.09	Joback Method
dvisc	0.0013909	Pa×s	395.03	Joback Method
dvisc	0.0004326	Pa×s	452.96	Joback Method
dvisc	0.0001754	Pa×s	510.90	Joback Method
dvisc	0.0000854	Pa×s	568.83	Joback Method
dvisc	0.0000475	Pa×s	626.77	Joback Method
dvisc	0.0000292	Pa×s	684.70	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=R78111&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

Latest version available from: