E-11-HEXADECEN-1-OL

Other names: 11-hexadecenol, E
Inchi: InChI=1S/C16H32O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h5-6,17H,2-4,7-16H2,1
InchiKey: RHVMNRHQWXIJIS-AATRIKPKSA-N
Formula: C16H32O
SMILES: CCCC/C=C/CCCCCCCCCO
Mol. weight [g/mol]: 240.43

Physical Properties

Property code	Value	Unit	Source
af	0.9032		Cheméo Relay (1.0)
gf	27.24	kJ/mol	Joback Method
hf	-434.14	kJ/mol	Cheméo Relay (1.0)
hfus	41.49	kJ/mol	Joback Method
hvap	109.82	kJ/mol	Cheméo Relay (1.0)
ie	9.08	eV	Cheméo Relay (1.0)
log10ws	-5.97		Cheméo Relay (1.0)
logp	5.236		Crippen Method
mcvol	237.870	ml/mol	McGowan Method
pc	1467.98	kPa	Joback Method
rinpol	1877.00		NIST Webbook
ripol	2423.00		NIST Webbook
tb	586.47	K	Cheméo Relay (1.0)
tc	765.54	K	Cheméo Relay (1.0)
tf	298.21	K	Cheméo Relay (1.0)
vc	0.894	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.38	J/mol×K	661.82	Joback Method
cpg	760.19	J/mol×K	825.49	Joback Method
cpg	746.95	J/mol×K	798.21	Joback Method
cpg	733.13	J/mol×K	770.94	Joback Method
cpg	718.68	J/mol×K	743.66	Joback Method

cpg	703.60	J/mol×K	716.38	Joback Method
cpg	687.84	J/mol×K	689.10	Joback Method
dvisc	0.0002133	Pa×s	493.82	Joback Method
dvisc	0.0000351	Pa×s	661.82	Joback Method
dvisc	0.0000572	Pa×s	605.82	Joback Method
dvisc	0.0001033	Pa×s	549.82	Joback Method
dvisc	0.0083536	Pa×s	325.82	Joback Method
dvisc	0.0005297	Pa×s	437.82	Joback Method
dvisc	0.0017184	Pa×s	381.82	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U130898&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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