E-12-tetradecen-1-ol

Other names: 12-tetradecenol, E
12-Tetradecen-1-ol, (E)
Inchi: InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h2-3,15H,4-14H2,1H3
InchiKey: IFNFLRVTYVLZAP-NSCUHMNNSA-N
Formula: C14H28O
SMILES: C/C=C/CCCCCCCCCCCO
Mol. weight [g/mol]: 212.38

Physical Properties

Property code	Value	Unit	Source
af	0.8590		Cheméo Relay (1.0)
gf	10.40	kJ/mol	Joback Method
hf	-383.34	kJ/mol	Cheméo Relay (1.0)
hfus	36.31	kJ/mol	Joback Method
hvap	102.98	kJ/mol	Cheméo Relay (1.0)
ie	9.13	eV	Cheméo Relay (1.0)
log10ws	-5.12		Cheméo Relay (1.0)
logp	4.456		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1682.00		NIST Webbook
ripol	2243.00		NIST Webbook
ripol	2243.00		NIST Webbook
tb	572.73	K	Cheméo Relay (1.0)
tc	750.24	K	Cheméo Relay (1.0)
tf	307.10	K	Cheméo Relay (1.0)
vc	0.781	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.60	J/mol×K	616.06	Joback Method
cpg	645.78	J/mol×K	778.82	Joback Method
cpg	633.37	J/mol×K	751.70	Joback Method

cpg	620.41	J/mol×K	724.57	Joback Method
cpg	606.89	J/mol×K	697.44	Joback Method
cpg	592.76	J/mol×K	670.31	Joback Method
cpg	578.00	J/mol×K	643.19	Joback Method
dvisc	0.0003158	Pa×s	459.67	Joback Method
dvisc	0.0000504	Pa×s	616.06	Joback Method
dvisc	0.0000829	Pa×s	563.93	Joback Method
dvisc	0.0001512	Pa×s	511.80	Joback Method
dvisc	0.0131572	Pa×s	303.28	Joback Method
dvisc	0.0007966	Pa×s	407.54	Joback Method
dvisc	0.0026357	Pa×s	355.41	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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=U130836&Units=SI

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