10,12-HEXADECADIEN-1-OL

Inchi: InChI=1S/C16H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h4-7,17H,2-3,8-16H2,1
InchiKey: CIVIWCVVOFNUST-YTXTXJHMSA-N
Formula: C16H30O
SMILES: CCC/C=C/C=C/CCCCCCCCCO
Mol. weight [g/mol]: 238.42

Physical Properties

Property code	Value	Unit	Source
af	0.8500		Cheméo Relay (1.0)
gf	107.46	kJ/mol	Joback Method
hf	-341.97	kJ/mol	Cheméo Relay (1.0)
hfus	41.69	kJ/mol	Joback Method
hvap	107.10	kJ/mol	Cheméo Relay (1.0)
ie	8.33	eV	Cheméo Relay (1.0)
log10ws	-5.96		Cheméo Relay (1.0)
logp	5.012		Crippen Method
mcvol	233.570	ml/mol	McGowan Method
pc	1528.27	kPa	Joback Method
rinpol	1880.00		NIST Webbook
rinpol	1880.00		NIST Webbook
tb	582.81	K	Cheméo Relay (1.0)
tc	770.23	K	Cheméo Relay (1.0)
tf	316.19	K	Cheméo Relay (1.0)
vc	0.853	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.91	J/mol×K	665.98	Joback Method
cpg	665.88	J/mol×K	693.97	Joback Method
cpg	681.15	J/mol×K	721.95	Joback Method
cpg	695.75	J/mol×K	749.94	Joback Method
cpg	709.70	J/mol×K	777.93	Joback Method
cpg	723.06	J/mol×K	805.91	Joback Method

cpg	735.86	J/mol×K	833.90	Joback Method
dvisc	0.0083725	Pa×s	320.74	Joback Method
dvisc	0.0016004	Pa×s	378.28	Joback Method
dvisc	0.0004736	Pa×s	435.82	Joback Method
dvisc	0.0001862	Pa×s	493.36	Joback Method
dvisc	0.0000889	Pa×s	550.90	Joback Method
dvisc	0.0000489	Pa×s	608.44	Joback Method
dvisc	0.0000298	Pa×s	665.98	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U130897&Units=SI
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):

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume