

(Z)6-Pentadecen-1-ol

Inchi:	InChI=1S/C15H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16/h9-10,16H,2-8,11-15H2,1
InchiKey:	HOHBDLSNJIZNTQ-KTKRTIGZSA-N
Formula:	C15H30O
SMILES:	CCCCCCCC=CCCCCO
Mol. weight [g/mol]:	226.40
CAS:	68797-95-5

Physical Properties

Property code	Value	Unit	Source
gf	18.82	kJ/mol	Joback Method
hf	-387.94	kJ/mol	Joback Method
hfus	38.90	kJ/mol	Joback Method
hvap	65.62	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.846		Crippen Method
mvol	223.780	ml/mol	McGowan Method
pc	1582.23	kPa	Joback Method
rinpol	1480.00		NIST Webbook
tb	638.94	K	Joback Method
tc	801.96	K	Joback Method
tf	314.55	K	Joback Method
vc	0.875	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	616.32	J/molxK	638.94	Joback Method
cpg	632.26	J/molxK	666.11	Joback Method
cpg	647.53	J/molxK	693.28	Joback Method
cpg	662.14	J/molxK	720.45	Joback Method
cpg	676.14	J/molxK	747.62	Joback Method
cpg	689.54	J/molxK	774.79	Joback Method
cpg	702.37	J/molxK	801.96	Joback Method
dvisc	0.0104701	Paxs	314.55	Joback Method

dvisc	0.0021264	Paxs	368.62	Joback Method
dvisc	0.0006493	Paxs	422.68	Joback Method
dvisc	0.0002595	Paxs	476.75	Joback Method
dvisc	0.0001250	Paxs	530.81	Joback Method
dvisc	0.0000689	Paxs	584.88	Joback Method
dvisc	0.0000420	Paxs	638.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C68797955&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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