

Propyl tetradecyl ether

Inchi:	InChI=1S/C17H36O/c1-3-5-6-7-8-9-10-11-12-13-14-15-17-18-16-4-2/h3-17H2,1-2H3
InchiKey:	CXAVDUWMEKGVDC-UHFFFAOYSA-N
Formula:	C17H36O
SMILES:	CCCCCCCCCCCCCOCCC
Mol. weight [g/mol]:	256.47

Physical Properties

Property code	Value	Unit	Source
gf	-12.74	kJ/mol	Joback Method
hf	-526.43	kJ/mol	Joback Method
hfus	40.97	kJ/mol	Joback Method
hvap	55.85	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	6.114		Crippen Method
mcvol	256.260	ml/mol	McGowan Method
pc	1216.59	kPa	Joback Method
rinpol	1780.00		NIST Webbook
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tb	610.78	K	Joback Method
tc	770.13	K	Joback Method
tf	303.58	K	Joback Method
vc	1.006	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.43	J/mol×K	610.78	Joback Method
cpg	718.79	J/mol×K	637.34	Joback Method
cpg	737.40	J/mol×K	663.90	Joback Method
cpg	755.28	J/mol×K	690.45	Joback Method
cpg	772.45	J/mol×K	717.01	Joback Method
cpg	788.91	J/mol×K	743.57	Joback Method
cpg	804.69	J/mol×K	770.13	Joback Method
dvisc	0.0031310	Paxs	303.58	Joback Method

dvisc	0.0011910	Paxs	354.78	Joback Method
dvisc	0.0005781	Paxs	405.98	Joback Method
dvisc	0.0003299	Paxs	457.18	Joback Method
dvisc	0.0002108	Paxs	508.38	Joback Method
dvisc	0.0001462	Paxs	559.58	Joback Method
dvisc	0.0001078	Paxs	610.78	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406278&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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