

Isopropyl tetradecyl ether

Inchi:	InChI=1S/C17H36O/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-18-17(2)3/h17H,4-16H2,1-3H3
InchiKey:	ULTRPZHREZRMJX-UHFFFAOYSA-N
Formula:	C17H36O
SMILES:	CCCCCCCCCCCCCOC(C)C
Mol. weight [g/mol]:	256.47

Physical Properties

Property code	Value	Unit	Source
gf	-15.18	kJ/mol	Joback Method
hf	-531.71	kJ/mol	Joback Method
hfus	37.45	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	6.112		Crippen Method
mcvol	256.260	ml/mol	McGowan Method
pc	1223.41	kPa	Joback Method
rinpola	1730.00		NIST Webbook
rinpola	1730.00		NIST Webbook
tb	610.34	K	Joback Method
tc	771.81	K	Joback Method
tf	288.58	K	Joback Method
vc	1.000	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.73	J/molxK	610.34	Joback Method
cpg	790.46	J/molxK	744.90	Joback Method
cpg	773.80	J/molxK	717.99	Joback Method
cpg	756.41	J/molxK	691.08	Joback Method
cpg	738.28	J/molxK	664.16	Joback Method
cpg	719.39	J/molxK	637.25	Joback Method
cpg	806.42	J/molxK	771.81	Joback Method
dvisc	0.0001006	Paxs	610.34	Joback Method

dvisc	0.0001395	Paxs	556.71	Joback Method
dvisc	0.0002073	Paxs	503.09	Joback Method
dvisc	0.0003388	Paxs	449.46	Joback Method
dvisc	0.0006325	Paxs	395.83	Joback Method
dvisc	0.0014360	Paxs	342.21	Joback Method
dvisc	0.0044218	Paxs	288.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406340&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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