

Ethyl tetratriacontyl ether

Inchi: InChI=1S/C36H74O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26
InchiKey: HXPRKOOOCIJAMPY-UHFFFAOYSA-N
Formula: C36H74O
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCC
Mol. weight [g/mol]: 522.97

Physical Properties

Property code	Value	Unit	Source
gf	147.24	kJ/mol	Joback Method
hf	-918.59	kJ/mol	Joback Method
hfus	90.18	kJ/mol	Joback Method
hvap	98.14	kJ/mol	Joback Method
log10ws	-13.98		Crippen Method
logp	13.526		Crippen Method
mvol	523.970	ml/mol	McGowan Method
pc	454.43	kPa	Joback Method
rinpol	3676.00		NIST Webbook
rinpol	3676.00		NIST Webbook
tb	1045.50	K	Joback Method
tc	1349.48	K	Joback Method
tf	517.71	K	Joback Method
vc	2.070	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1930.04	J/molxK	1045.50	Joback Method
cpg	1965.61	J/molxK	1096.16	Joback Method
cpg	1997.93	J/molxK	1146.83	Joback Method
cpg	2027.29	J/molxK	1197.49	Joback Method
cpg	2053.98	J/molxK	1248.16	Joback Method
cpg	2078.27	J/molxK	1298.82	Joback Method
cpg	2100.44	J/molxK	1349.48	Joback Method
dvisc	0.0002889	Paxs	517.71	Joback Method

dvisc	0.0000989	Paxs	605.68	Joback Method
dvisc	0.0000444	Paxs	693.64	Joback Method
dvisc	0.0000239	Paxs	781.61	Joback Method
dvisc	0.0000146	Paxs	869.57	Joback Method
dvisc	0.0000097	Paxs	957.53	Joback Method
dvisc	0.0000070	Paxs	1045.50	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406373&Units=SI

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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