

DITETRADECYL ETHER

Other names:	15-Oxanonacosane Tetradecane, 1,1'-oxybis- Tetradecyl ether
Inchi:	InChI=1S/C28H58O/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-28-26-24-22-20-18-16-1
InchiKey:	HANWHVWXFQSQGJ-UHFFFAOYSA-N
Formula:	C28H58O
SMILES:	CCCCCCCCCCCCCCCCOCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	410.77

Physical Properties

Property code	Value	Unit	Source
af	1.2018		Cheméo Relay (1.0)
gf	79.88	kJ/mol	Joback Method
hf	-752.15	kJ/mol	Cheméo Relay (1.0)
hfus	69.46	kJ/mol	Joback Method
hvap	135.90	kJ/mol	Cheméo Relay (1.0)
ie	9.78	eV	Cheméo Relay (1.0)
log10ws	-9.71		Cheméo Relay (1.0)
logp	10.405		Crippen Method
mcvol	411.250	ml/mol	McGowan Method
pc	649.78	kPa	Joback Method
tb	634.89	K	Cheméo Relay (1.0)
tc	810.85	K	Cheméo Relay (1.0)
tf	308.90	K	Cheméo Relay (1.0)
vc	1.634	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.56	J/mol×K	862.46	Joback Method
cpg	1517.66	J/mol×K	1059.66	Joback Method
cpg	1498.72	J/mol×K	1026.79	Joback Method
cpg	1478.56	J/mol×K	993.93	Joback Method
cpg	1457.12	J/mol×K	961.06	Joback Method

cpg	1434.34	J/mol×K	928.19	Joback Method
cpg	1410.17	J/mol×K	895.33	Joback Method
dvisc	0.0000808	Pa×s	645.00	Joback Method
dvisc	0.0000243	Pa×s	862.46	Joback Method
dvisc	0.0000337	Pa×s	789.98	Joback Method
dvisc	0.0000499	Pa×s	717.49	Joback Method
dvisc	0.0009084	Pa×s	427.55	Joback Method
dvisc	0.0001475	Pa×s	572.52	Joback Method
dvisc	0.0003209	Pa×s	500.03	Joback Method
hfust	113.39	kJ/mol	316.80	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5412986&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

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
hfust:	Enthalpy of fusion at a given temperature
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point
vc: Critical Volume

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