Myristyl myristate

Other names:	Tetradecanoic acid, tetradecyl ester
	Myristic acid, tetradecyl ester
	Ceraphyl 424
	Cyclochem MM
	Tetradecyl myristate
	Tetradecyl tetradecanoate
	Alkamuls MM/M
	Cetiol MM
	Crodamol MM
	Liponate MM
	Myristyl tetradecanoate
	Schercemol MM
	Waxenol 810
	1-Tetradecanol, myristate
Inchi:	InChI=1S/C28H56O2/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-30-28(29)26-24-22-20-18-
InchiKey:	DZKXJUASMGQEMA-UHFFFAOYSA-N
Formula:	C28H56O2
SMILES:	CCCCCCCCCCCCCCOC(=O)CCCCCCCCCCCCC
Mol. weight [g/mol]:	424.74
CAS:	3234-85-3

Physical Properties

Property code	Value	Unit	Source
gf	-49.04	kJ/mol	Joback Method
hf	-866.05	kJ/mol	Joback Method
hfus	71.06	kJ/mol	Joback Method
hvap	87.08	kJ/mol	Joback Method
log10ws	-10.41		Crippen Method
logp	9.932		Crippen Method
mcvol	412.820	ml/mol	McGowan Method
pc	671.16	kPa	Joback Method
rinpol	2947.00		NIST Webbook
rinpol	2947.00		NIST Webbook
rinpol	2950.07		NIST Webbook
rinpol	2946.00		NIST Webbook
tb	916.33	K	Joback Method
tc	1129.21	K	Joback Method

tf	477.48	K	Joback Method
vc	1.627	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1416.23	J/mol×K	916.33	Joback Method
cpg	1440.70	J/mol×K	951.81	Joback Method
cpg	1463.57	J/mol×K	987.29	Joback Method
cpg	1484.93	J/mol×K	1022.77	Joback Method
cpg	1504.83	J/mol×K	1058.25	Joback Method
cpg	1523.34	J/mol×K	1093.73	Joback Method
cpg	1540.54	J/mol×K	1129.21	Joback Method
dvisc	0.0006385	Pa×s	477.48	Joback Method
dvisc	0.0002539	Pa×s	550.62	Joback Method
dvisc	0.0001253	Pa×s	623.76	Joback Method
dvisc	0.0000717	Pa×s	696.90	Joback Method
dvisc	0.0000457	Pa×s	770.05	Joback Method
dvisc	0.0000314	Pa×s	843.19	Joback Method
dvisc	0.0000230	Pa×s	916.33	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C3234853&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