

2-Methoxyethyl myristate

Inchi:	InChI=1S/C17H34O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-17(18)20-16-15-19-2/h3-16H2,1-2
InchiKey:	KVFSSOAOLLIISP-UHFFFAOYSA-N
Formula:	C17H34O3
SMILES:	CCCCCCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]:	286.45
CAS:	110-37-2

Physical Properties

Property code	Value	Unit	Source
gf	-246.66	kJ/mol	Joback Method
hf	-771.23	kJ/mol	Joback Method
hfus	43.76	kJ/mol	Joback Method
hvap	65.00	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.877		Crippen Method
mvol	263.700	ml/mol	McGowan Method
pc	1256.59	kPa	Joback Method
rinpol	1975.00		NIST Webbook
rinpol	1975.00		NIST Webbook
tb	687.07	K	Joback Method
tc	855.78	K	Joback Method
tf	375.74	K	Joback Method
vc	1.030	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	763.76	J/molxK	687.07	Joback Method
cpg	781.91	J/molxK	715.19	Joback Method
cpg	799.26	J/molxK	743.31	Joback Method
cpg	815.82	J/molxK	771.42	Joback Method
cpg	831.60	J/molxK	799.54	Joback Method
cpg	846.62	J/molxK	827.66	Joback Method
cpg	860.87	J/molxK	855.78	Joback Method

dvisc	0.0015050	Paxs	375.74	Joback Method
dvisc	0.0006930	Paxs	427.63	Joback Method
dvisc	0.0003774	Paxs	479.52	Joback Method
dvisc	0.0002314	Paxs	531.40	Joback Method
dvisc	0.0001548	Paxs	583.29	Joback Method
dvisc	0.0001106	Paxs	635.18	Joback Method
dvisc	0.0000831	Paxs	687.07	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110372&Units=SI
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

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

Latest version available from:

<https://www.chemeo.com/cid/42-662-0/2-Methoxyethyl-myristate.pdf>

Generated by Cheméo on 2024-04-25 18:40:31.30241363 +0000 UTC m=+16359680.222990946.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.