

Butyl myristate

Other names:	n-Butyl myristate Myristic acid n-butyl ester Tetradecanoic acid, butyl ester Bumyr Myristic acid, butyl ester Butyl n-tetradecanoate Butyl tetradecanoate Crodamol BM n-Butyl tetradecanoate Tetradecanoic acid, n-butyl ester Wickenol 141 NSC 4814
Inchi:	InChI=1S/C18H36O2/c1-3-5-7-8-9-10-11-12-13-14-15-16-18(19)20-17-6-4-2/h3-17H2,1-2
InchiKey:	DHAZIUXMHRHVMP-UHFFFAOYSA-N
Formula:	C18H36O2
SMILES:	CCCCCCCCCCCC(=O)OCCCC
Mol. weight [g/mol]:	284.48
CAS:	110-36-1

Physical Properties

Property code	Value	Unit	Source
gf	-133.24	kJ/mol	Joback Method
hf	-659.65	kJ/mol	Joback Method
hfus	45.16	kJ/mol	Joback Method
hvap	64.82	kJ/mol	Joback Method
log10ws	-6.22		Crippen Method
logp	6.031		Crippen Method
mcvol	271.920	ml/mol	McGowan Method
pc	1189.06	kPa	Joback Method
rinpol	1967.00		NIST Webbook
rinpol	1986.00		NIST Webbook
rinpol	1988.00		NIST Webbook
rinpol	1977.00		NIST Webbook
ripol	2229.00		NIST Webbook
ripol	2229.00		NIST Webbook
ripol	2215.00		NIST Webbook
ripol	2216.00		NIST Webbook

tb	687.53	K	Joback Method
tc	855.83	K	Joback Method
tf	279.95 ± 3.00	K	NIST Webbook
vc	1.067	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.92	J/mol×K	687.53	Joback Method
cpg	875.72	J/mol×K	827.78	Joback Method
cpg	860.14	J/mol×K	799.73	Joback Method
cpg	843.80	J/mol×K	771.68	Joback Method
cpg	826.65	J/mol×K	743.63	Joback Method
cpg	808.70	J/mol×K	715.58	Joback Method
cpg	890.54	J/mol×K	855.83	Joback Method
dvisc	0.0000953	Paxs	687.53	Joback Method
dvisc	0.0001278	Paxs	633.74	Joback Method
dvisc	0.0001809	Paxs	579.95	Joback Method
dvisc	0.0002749	Paxs	526.15	Joback Method
dvisc	0.0004595	Paxs	472.36	Joback Method
dvisc	0.0008765	Paxs	418.57	Joback Method
dvisc	0.0020226	Paxs	364.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110361&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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