

Methyl 18-methylicosanoate

Inchi:

InChI=1S/C22H44O2/c1-4-21(2)19-17-15-13-11-9-7-5-6-8-10-12-14-16-18-20-22(23)24-3

InchiKey:

IOOSSZGDUSBSRF-UHFFFAOYSA-N

Formula:

C22H44O2

SMILES:

CCC(C)CCCCCCCCCCCCCCCCC(=O)OC

Mol. weight [g/mol]:

340.58

Physical Properties

Property code	Value	Unit	Source
gf	-102.00	kJ/mol	Joback Method
hf	-747.49	kJ/mol	Joback Method
hfus	52.00	kJ/mol	Joback Method
hvap	73.33	kJ/mol	Joback Method
log10ws	-7.65		Crippen Method
logp	7.447		Crippen Method
mcvol	328.280	ml/mol	McGowan Method
pc	931.78	kPa	Joback Method
rinpol	2401.10		NIST Webbook
rinpol	2401.10		NIST Webbook
tb	778.61	K	Joback Method
tc	955.90	K	Joback Method
tf	394.86	K	Joback Method
vc	1.286	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1031.45	J/mol×K	778.61	Joback Method
cpg	1124.73	J/mol×K	926.35	Joback Method
cpg	1108.04	J/mol×K	896.80	Joback Method
cpg	1090.39	J/mol×K	867.25	Joback Method
cpg	1071.76	J/mol×K	837.71	Joback Method
cpg	1052.12	J/mol×K	808.16	Joback Method
cpg	1140.50	J/mol×K	955.90	Joback Method
dvisc	0.0000512	Pa×s	778.61	Joback Method

dvisc	0.0000706	Pa×s	714.65	Joback Method
dvisc	0.0001035	Pa×s	650.69	Joback Method
dvisc	0.0001652	Pa×s	586.74	Joback Method
dvisc	0.0002954	Pa×s	522.78	Joback Method
dvisc	0.0006213	Pa×s	458.82	Joback Method
dvisc	0.0016625	Pa×s	394.86	Joback Method

Sources

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=U352205&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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