1-Methoxy-24-methylheptacosane

Inchi: InChI=1S/C29H60O/c1-4-26-29(2)27-24-22-20-18-16-14-12-10-8-6-5-7-9-11-13-15-17-19
InchiKey: VPIMVEFSBDGPMI-UHFFFAOYSA-N
Formula: C29H60O
SMILES: CCCC(C)CCCCCCCCCCCCCCCCCCCCCCCCCOC
Mol. weight [g/mol]: 424.79

Physical Properties

Property code	Value	Unit	Source
gf	85.86	kJ/mol	Joback Method
hf	-779.39	kJ/mol	Joback Method
hfus	68.53	kJ/mol	Joback Method
hvap	82.17	kJ/mol	Joback Method
log10ws	-10.81		Crippen Method
logp	10.651		Crippen Method
mcvol	425.340	ml/mol	McGowan Method
pc	621.58	kPa	Joback Method
rinpol	2990.00		NIST Webbook
tb	884.90	K	Joback Method
tc	1089.09	K	Joback Method
tf	423.82	K	Joback Method
vc	1.671	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1451.72	J/mol×K	884.90	Joback Method
cpg	1568.23	J/mol×K	1055.06	Joback Method
cpg	1547.81	J/mol×K	1021.02	Joback Method
cpg	1526.01	J/mol×K	986.99	Joback Method
cpg	1502.77	J/mol×K	952.96	Joback Method
cpg	1478.03	J/mol×K	918.93	Joback Method
cpg	1587.35	J/mol×K	1089.09	Joback Method
dvisc	0.0000191	Pa×s	884.90	Joback Method
dvisc	0.0000270	Pa×s	808.05	Joback Method

dvisc	0.0000409	Pa×s	731.21	Joback Method
dvisc	0.0000684	Pa×s	654.36	Joback Method
dvisc	0.0001312	Pa×s	577.51	Joback Method
dvisc	0.0003072	Pa×s	500.67	Joback Method
dvisc	0.0009793	Pa×s	423.82	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=R547258&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