

1-Methoxy-22-methyltetracosane

Inchi:	InChI=1S/C26H54O/c1-4-26(2)24-22-20-18-16-14-12-10-8-6-5-7-9-11-13-15-17-19-21-23
InchiKey:	IPBNGISXTHUHHH-UHFFFAOYSA-N
Formula:	C26H54O
SMILES:	CCC(C)CCCCCCCCCCCCCCCCCCCCCOC
Mol. weight [g/mol]:	382.71

Physical Properties

Property code	Value	Unit	Source
gf	60.60	kJ/mol	Joback Method
hf	-717.47	kJ/mol	Joback Method
hfus	60.76	kJ/mol	Joback Method
hvap	75.49	kJ/mol	Joback Method
log10ws	-9.55		Crippen Method
logp	9.481		Crippen Method
mcvol	383.070	ml/mol	McGowan Method
pc	721.46	kPa	Joback Method
rinpol	2706.00		NIST Webbook
tb	816.26	K	Joback Method
tc	999.43	K	Joback Method
tf	390.01	K	Joback Method
vc	1.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1253.01	J/molxK	816.26	Joback Method
cpg	1361.16	J/molxK	968.90	Joback Method
cpg	1341.85	J/molxK	938.37	Joback Method
cpg	1321.42	J/molxK	907.84	Joback Method
cpg	1299.83	J/molxK	877.32	Joback Method
cpg	1277.04	J/molxK	846.79	Joback Method
cpg	1379.40	J/molxK	999.43	Joback Method
dvisc	0.0000300	Paxs	816.26	Joback Method
dvisc	0.0000422	Paxs	745.22	Joback Method

dvisc	0.0000638	Paxs	674.18	Joback Method
dvisc	0.0001062	Paxs	603.13	Joback Method
dvisc	0.0002027	Paxs	532.09	Joback Method
dvisc	0.0004720	Paxs	461.05	Joback Method
dvisc	0.0014951	Paxs	390.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R547243&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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