

# 1-Methyl-2-methoxyethyl stearate

<b>Inchi:</b>	InChI=1S/C22H44O3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22(23)25-21(2)20-2
<b>InchiKey:</b>	FSAWRPXLQQUIUGA-UHFFFAOYSA-N
<b>Formula:</b>	C22H44O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCC(=O)OC(C)COC
<b>Mol. weight [g/mol]:</b>	356.58

## Physical Properties

Property code	Value	Unit	Source
gf	-207.00	kJ/mol	Joback Method
hf	-879.71	kJ/mol	Joback Method
hfus	53.19	kJ/mol	Joback Method
hvap	75.74	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	6.826		Crippen Method
mcvol	334.150	ml/mol	McGowan Method
pc	922.18	kPa	Joback Method
rinpol	2392.00		NIST Webbook
tb	801.03	K	Joback Method
tc	981.83	K	Joback Method
tf	417.09	K	Joback Method
vc	1.304	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1065.16	J/molxK	801.03	Joback Method
cpg	1156.97	J/molxK	951.70	Joback Method
cpg	1140.73	J/molxK	921.57	Joback Method
cpg	1123.45	J/molxK	891.43	Joback Method
cpg	1105.11	J/molxK	861.30	Joback Method
cpg	1085.69	J/molxK	831.16	Joback Method
cpg	1172.19	J/molxK	981.83	Joback Method
dvisc	0.0000384	Paxs	801.03	Joback Method
dvisc	0.0000526	Paxs	737.04	Joback Method

dvisc	0.0000766	Paxs	673.05	Joback Method
dvisc	0.0001207	Paxs	609.06	Joback Method
dvisc	0.0002115	Paxs	545.07	Joback Method
dvisc	0.0004302	Paxs	481.08	Joback Method
dvisc	0.0010883	Paxs	417.09	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R540222&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540222&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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