

# 1-Methyl-2-methoxyethyl behenoate

<b>Inchi:</b>	InChI=1S/C26H52O3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-26(27
<b>InchiKey:</b>	OLPWCQVTDGVJNQ-UHFFFAOYSA-N
<b>Formula:</b>	C26H52O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(=O)OC(C)COC
<b>Mol. weight [g/mol]:</b>	412.69

## Physical Properties

Property code	Value	Unit	Source
gf	-173.32	kJ/mol	Joback Method
hf	-962.27	kJ/mol	Joback Method
hfus	63.55	kJ/mol	Joback Method
hvap	84.65	kJ/mol	Joback Method
log10ws	-8.77		Crippen Method
logp	8.386		Crippen Method
mvol	390.510	ml/mol	McGowan Method
pc	739.63	kPa	Joback Method
rinpol	2792.00		NIST Webbook
rinpol	2792.00		NIST Webbook
tb	892.55	K	Joback Method
tc	1095.41	K	Joback Method
tf	462.17	K	Joback Method
vc	1.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1320.14	J/molxK	892.55	Joback Method
cpg	1419.23	J/molxK	1061.60	Joback Method
cpg	1402.24	J/molxK	1027.79	Joback Method
cpg	1383.88	J/molxK	993.98	Joback Method
cpg	1364.10	J/molxK	960.17	Joback Method
cpg	1342.87	J/molxK	926.36	Joback Method
cpg	1434.88	J/molxK	1095.41	Joback Method
dvisc	0.0000211	Paxs	892.55	Joback Method

dvisc	0.0000291	Paxs	820.82	Joback Method
dvisc	0.0000426	Paxs	749.09	Joback Method
dvisc	0.0000679	Paxs	677.36	Joback Method
dvisc	0.0001206	Paxs	605.63	Joback Method
dvisc	0.0002500	Paxs	533.90	Joback Method
dvisc	0.0006499	Paxs	462.17	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R540064&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540064&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>

## 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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