

# 6-Methoxythymyl isobutyrate

<b>Inchi:</b>	InChI=1S/C15H22O3/c1-9(2)12-8-13(17-6)11(5)7-14(12)18-15(16)10(3)4/h7-10H,1-6H3
<b>InchiKey:</b>	JGJKXXDVWAGEOY-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O3
<b>SMILES:</b>	COc1cc(C(C)C)c(OC(=O)C(C)C)cc1C
<b>Mol. weight [g/mol]:</b>	250.33

## Physical Properties

Property code	Value	Unit	Source
gf	-184.86	kJ/mol	Joback Method
hf	-538.39	kJ/mol	Joback Method
hfus	24.41	kJ/mol	Joback Method
hvap	64.04	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	3.688		Crippen Method
mvol	211.760	ml/mol	McGowan Method
pc	1846.75	kPa	Joback Method
rinpol	1673.20		NIST Webbook
rinpol	1673.20		NIST Webbook
tb	682.05	K	Joback Method
tc	887.57	K	Joback Method
tf	387.18	K	Joback Method
vc	0.797	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.04	J/molxK	682.05	Joback Method
cpg	590.62	J/molxK	716.30	Joback Method
cpg	606.29	J/molxK	750.56	Joback Method
cpg	621.03	J/molxK	784.81	Joback Method
cpg	634.86	J/molxK	819.06	Joback Method
cpg	647.77	J/molxK	853.31	Joback Method
cpg	659.76	J/molxK	887.57	Joback Method
dvisc	0.0010114	Paxs	387.18	Joback Method

dvisc	0.0005382	Paxs	436.32	Joback Method
dvisc	0.0003254	Paxs	485.47	Joback Method
dvisc	0.0002158	Paxs	534.62	Joback Method
dvisc	0.0001534	Paxs	583.76	Joback Method
dvisc	0.0001150	Paxs	632.90	Joback Method
dvisc	0.0000898	Paxs	682.05	Joback Method

## Sources

<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=U413803&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U413803&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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