

# 1-Methyl-2-methoxyethyl 4-tert-butylbenzoate

<b>Inchi:</b>	InChI=1S/C15H22O3/c1-11(10-17-5)18-14(16)12-6-8-13(9-7-12)15(2,3)4/h6-9,11H,10H2
<b>InchiKey:</b>	BJRMPDQKXHJKKR-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O3
<b>SMILES:</b>	COCC(C)OC(=O)c1ccc(C(C)(C)C)cc1
<b>Mol. weight [g/mol]:</b>	250.33

## Physical Properties

Property code	Value	Unit	Source
gf	-160.32	kJ/mol	Joback Method
hf	-518.92	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	61.80	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.176		Crippen Method
mcvol	211.760	ml/mol	McGowan Method
pc	1913.58	kPa	Joback Method
rinsol	1719.00		NIST Webbook
tb	669.30	K	Joback Method
tc	879.92	K	Joback Method
tf	379.56	K	Joback Method
vc	0.792	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.18	J/molxK	669.30	Joback Method
cpg	594.37	J/molxK	704.40	Joback Method
cpg	610.49	J/molxK	739.51	Joback Method
cpg	625.57	J/molxK	774.61	Joback Method
cpg	639.64	J/molxK	809.71	Joback Method
cpg	652.73	J/molxK	844.82	Joback Method
cpg	664.87	J/molxK	879.92	Joback Method
dvisc	0.0014048	Paxs	379.56	Joback Method
dvisc	0.0006732	Paxs	427.85	Joback Method

dvisc	0.0003745	Paxs	476.14	Joback Method
dvisc	0.0002321	Paxs	524.43	Joback Method
dvisc	0.0001560	Paxs	572.72	Joback Method
dvisc	0.0001115	Paxs	621.01	Joback Method
dvisc	0.0000836	Paxs	669.30	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=R540044&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540044&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>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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