

# Carbonic acid, isobutyl 4-methoxyphenyl ester

<b>Inchi:</b>	InChI=1S/C12H16O4/c1-9(2)8-15-12(13)16-11-6-4-10(14-3)5-7-11/h4-7,9H,8H2,1-3H3
<b>InchiKey:</b>	DVHVQXDNFHZQJY-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O4
<b>SMILES:</b>	COc1ccc(OC(=O)OCC(C)C)cc1
<b>Mol. weight [g/mol]:</b>	224.25

## Physical Properties

Property code	Value	Unit	Source
gf	-293.42	kJ/mol	Joback Method
hf	-580.47	kJ/mol	Joback Method
hfus	22.13	kJ/mol	Joback Method
hvap	58.83	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.867		Crippen Method
mvol	175.360	ml/mol	McGowan Method
pc	2417.12	kPa	Joback Method
rinpol	1661.00		NIST Webbook
rinpol	1661.00		NIST Webbook
tb	626.31	K	Joback Method
tc	833.16	K	Joback Method
tf	365.56	K	Joback Method
vc	0.653	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.46	J/molxK	626.31	Joback Method
cpg	460.19	J/molxK	660.78	Joback Method
cpg	474.13	J/molxK	695.26	Joback Method
cpg	487.28	J/molxK	729.73	Joback Method
cpg	499.64	J/molxK	764.21	Joback Method
cpg	511.18	J/molxK	798.68	Joback Method
cpg	521.91	J/molxK	833.16	Joback Method
dvisc	0.0011363	Paxs	365.56	Joback Method

dvisc	0.0006221	Paxs	409.02	Joback Method
dvisc	0.0003823	Paxs	452.48	Joback Method
dvisc	0.0002559	Paxs	495.93	Joback Method
dvisc	0.0001828	Paxs	539.39	Joback Method
dvisc	0.0001372	Paxs	582.85	Joback Method
dvisc	0.0001072	Paxs	626.31	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357834&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

Latest version available from:

<https://www.chemeo.com/cid/49-605-6/Carbonic-acid-isobutyl-4-methoxyphenyl-ester.pdf>

Generated by Cheméo on 2024-04-24 20:25:42.151630163 +0000 UTC m=+16279591.072207476.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.