

# Carbonic acid, isobutyl 4-benzyloxyphenyl ester

<b>Inchi:</b>	InChI=1S/C18H20O4/c1-14(2)12-21-18(19)22-17-10-8-16(9-11-17)20-13-15-6-4-3-5-7-15
<b>InchiKey:</b>	DWPQVUKZZZKNOC-UHFFFAOYSA-N
<b>Formula:</b>	C18H20O4
<b>SMILES:</b>	CC(C)COC(=O)Oc1ccc(OCc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	300.35

## Physical Properties

Property code	Value	Unit	Source
gf	-130.49	kJ/mol	Joback Method
hf	-467.78	kJ/mol	Joback Method
hfus	31.71	kJ/mol	Joback Method
hvap	74.46	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.437		Crippen Method
mvol	236.140	ml/mol	McGowan Method
pc	1925.36	kPa	Joback Method
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
tb	790.27	K	Joback Method
tc	1014.75	K	Joback Method
tf	459.60	K	Joback Method
vc	0.881	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.66	J/molxK	790.27	Joback Method
cpg	697.33	J/molxK	827.68	Joback Method
cpg	711.69	J/molxK	865.10	Joback Method
cpg	724.77	J/molxK	902.51	Joback Method
cpg	736.58	J/molxK	939.92	Joback Method
cpg	747.14	J/molxK	977.34	Joback Method
cpg	756.46	J/molxK	1014.75	Joback Method
dvisc	0.0005967	Paxs	459.60	Joback Method

dvisc	0.0003203	Paxs	514.71	Joback Method
dvisc	0.0001939	Paxs	569.82	Joback Method
dvisc	0.0001282	Paxs	624.93	Joback Method
dvisc	0.0000907	Paxs	680.05	Joback Method
dvisc	0.0000676	Paxs	735.16	Joback Method
dvisc	0.0000524	Paxs	790.27	Joback Method

## Sources

<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=U357839&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357839&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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