

# Carbonic acid, neopentyl 3,5-dimethylphenyl ester

Inchi:	InChI=1S/C14H20O3/c1-10-6-11(2)8-12(7-10)17-13(15)16-9-14(3,4)5/h6-8H,9H2,1-5H3
InchiKey:	FKHNWXTZUPREQT-UHFFFAOYSA-N
Formula:	C14H20O3
SMILES:	<chem>Cc1cc(C)cc(OC(=O)OCC(C)(C)C)c1</chem>
Mol. weight [g/mol]:	236.31

## Physical Properties

Property code	Value	Unit	Source
gf	-175.93	kJ/mol	Joback Method
hf	-504.47	kJ/mol	Joback Method
hfus	21.84	kJ/mol	Joback Method
hvap	60.63	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.865		Crippen Method
mcvol	197.670	ml/mol	McGowan Method
pc	2041.91	kPa	Joback Method
rinsol	1622.00		NIST Webbook
tb	651.84	K	Joback Method
tc	862.62	K	Joback Method
tf	395.81	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.45	J/molxK	651.84	Joback Method
cpg	539.72	J/molxK	686.97	Joback Method
cpg	555.02	J/molxK	722.10	Joback Method
cpg	569.37	J/molxK	757.23	Joback Method
cpg	582.80	J/molxK	792.36	Joback Method
cpg	595.33	J/molxK	827.49	Joback Method
cpg	606.97	J/molxK	862.62	Joback Method
dvisc	0.0009790	Paxs	395.81	Joback Method
dvisc	0.0005574	Paxs	438.48	Joback Method

dvisc	0.0003508	Paxs	481.15	Joback Method
dvisc	0.0002380	Paxs	523.83	Joback Method
dvisc	0.0001712	Paxs	566.50	Joback Method
dvisc	0.0001290	Paxs	609.17	Joback Method
dvisc	0.0001008	Paxs	651.84	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=U357861&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357861&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>

## 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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