

# Carbonic acid, neopentyl 4-chlorophenyl ester

**Inchi:** InChI=1S/C12H15ClO3/c1-12(2,3)8-15-11(14)16-10-6-4-9(13)5-7-10/h4-7H,8H2,1-3H3  
**InchiKey:** NYJHHOFKZJVGJQ-UHFFFAOYSA-N  
**Formula:** C12H15ClO3  
**SMILES:** CC(C)(C)COC(=O)Oc1ccc(Cl)cc1  
**Mol. weight [g/mol]:** 242.70

## Physical Properties

Property code	Value	Unit	Source
gf	-195.07	kJ/mol	Joback Method
hf	-467.46	kJ/mol	Joback Method
hfus	21.25	kJ/mol	Joback Method
hvap	59.90	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.901		Crippen Method
mvol	181.730	ml/mol	McGowan Method
pc	2395.87	kPa	Joback Method
rinpol	1593.00		NIST Webbook
rinpol	1593.00		NIST Webbook
tb	638.53	K	Joback Method
tc	859.03	K	Joback Method
tf	390.67	K	Joback Method
vc	0.679	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.77	J/molxK	638.53	Joback Method
cpg	464.12	J/molxK	675.28	Joback Method
cpg	477.51	J/molxK	712.03	Joback Method
cpg	489.98	J/molxK	748.78	Joback Method
cpg	501.55	J/molxK	785.53	Joback Method
cpg	512.25	J/molxK	822.28	Joback Method
cpg	522.10	J/molxK	859.03	Joback Method
dvisc	0.0011963	Paxs	390.67	Joback Method

dvisc	0.0006772	Paxs	431.98	Joback Method
dvisc	0.0004234	Paxs	473.29	Joback Method
dvisc	0.0002854	Paxs	514.60	Joback Method
dvisc	0.0002040	Paxs	555.91	Joback Method
dvisc	0.0001528	Paxs	597.22	Joback Method
dvisc	0.0001188	Paxs	638.53	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=U357860&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357860&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>

## 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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