

# Carbonic acid, 2,2,2-trichloroethyl 4-methoxyphenyl ester

Inchi:	InChI=1S/C10H9Cl3O4/c1-15-7-2-4-8(5-3-7)17-9(14)16-6-10(11,12)13/h2-5H,6H2,1H3
InchiKey:	QYIOUVUYTVIJTD-UHFFFAOYSA-N
Formula:	C10H9Cl3O4
SMILES:	COc1ccc(OC(=O)OCC(Cl)(Cl)Cl)cc1
Mol. weight [g/mol]:	299.54

## Physical Properties

Property code	Value	Unit	Source
gf	-340.77	kJ/mol	Joback Method
hf	-589.88	kJ/mol	Joback Method
hfus	25.65	kJ/mol	Joback Method
hvap	66.63	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.581		Crippen Method
mvol	183.900	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
rinpol	1903.00		NIST Webbook
rinpol	1903.00		NIST Webbook
tb	690.05	K	Joback Method
tc	922.00	K	Joback Method
tf	450.20	K	Joback Method
vc	0.683	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.67	J/molxK	690.05	Joback Method
cpg	433.36	J/molxK	728.71	Joback Method
cpg	443.17	J/molxK	767.37	Joback Method
cpg	452.12	J/molxK	806.03	Joback Method
cpg	460.22	J/molxK	844.69	Joback Method
cpg	467.49	J/molxK	883.35	Joback Method
cpg	473.94	J/molxK	922.00	Joback Method
dvisc	0.0006982	Paxs	450.20	Joback Method

dvisc	0.0004359	Paxs	490.18	Joback Method
dvisc	0.0002921	Paxs	530.15	Joback Method
dvisc	0.0002071	Paxs	570.12	Joback Method
dvisc	0.0001536	Paxs	610.10	Joback Method
dvisc	0.0001182	Paxs	650.08	Joback Method
dvisc	0.0000937	Paxs	690.05	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357902&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357902&amp;Units=SI</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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