

# Methacrylic acid, 2,3,4,6-tetrachlorophenyl ester

Inchi:	InChI=1S/C10H6Cl4O2/c1-4(2)10(15)16-9-6(12)3-5(11)7(13)8(9)14/h3H,1H2,2H3
InchiKey:	XTXUBYDSONALIV-UHFFFAOYSA-N
Formula:	C10H6Cl4O2
SMILES:	C=C(C)C(=O)Oc1c(Cl)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	299.96

## Physical Properties

Property code	Value	Unit	Source
gf	-95.14	kJ/mol	Joback Method
hf	-251.20	kJ/mol	Joback Method
hfus	31.13	kJ/mol	Joback Method
hvap	68.88	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.782		Crippen Method
mvol	180.100	ml/mol	McGowan Method
pc	2597.78	kPa	Joback Method
rinpol	1827.00		NIST Webbook
rinpol	1827.00		NIST Webbook
tb	697.37	K	Joback Method
tc	936.70	K	Joback Method
tf	455.08	K	Joback Method
vc	0.690	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.24	J/mol×K	697.37	Joback Method
cpg	374.94	J/mol×K	737.26	Joback Method
cpg	382.98	J/mol×K	777.15	Joback Method
cpg	390.38	J/mol×K	817.03	Joback Method
cpg	397.15	J/mol×K	856.92	Joback Method
cpg	403.30	J/mol×K	896.81	Joback Method
cpg	408.83	J/mol×K	936.70	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=U360694&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360694&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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