

# 3-Methylbut-2-enoic acid, 2,4,5-trichlorophenyl ester

Inchi:	InChI=1S/C11H9Cl3O2/c1-6(2)3-11(15)16-10-5-8(13)7(12)4-9(10)14/h3-5H,1-2H3
InchiKey:	RIWFJYJVQGPGRGX-UHFFFAOYSA-N
Formula:	C11H9Cl3O2
SMILES:	CC(C)=CC(=O)Oc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	279.55

## Physical Properties

Property code	Value	Unit	Source
gf	-72.78	kJ/mol	Joback Method
hf	-252.84	kJ/mol	Joback Method
hfus	31.39	kJ/mol	Joback Method
hvap	66.69	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.518		Crippen Method
mcvol	181.950	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
rinsol	1900.00		NIST Webbook
tb	685.32	K	Joback Method
tc	921.11	K	Joback Method
tf	420.59	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.39	J/mol×K	685.32	Joback Method
cpg	405.95	J/mol×K	724.62	Joback Method
cpg	415.76	J/mol×K	763.92	Joback Method
cpg	424.86	J/mol×K	803.22	Joback Method
cpg	433.26	J/mol×K	842.51	Joback Method
cpg	441.01	J/mol×K	881.81	Joback Method
cpg	448.13	J/mol×K	921.11	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355132&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355132&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>mccvol:</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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