

# Dimethylmalonic acid, propyl 2,4,6-trichlorophenyl ester

**Inchi:** InChI=1S/C14H15Cl3O4/c1-4-5-20-12(18)14(2,3)13(19)21-11-9(16)6-8(15)7-10(11)17/h6  
**InchiKey:** VULSHHCHBHVVTO-UHFFFAOYSA-N  
**Formula:** C14H15Cl3O4  
**SMILES:** CCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)cc(Cl)cc1Cl  
**Mol. weight [g/mol]:** 353.62

## Physical Properties

Property code	Value	Unit	Source
gf	-350.27	kJ/mol	Joback Method
hf	-675.74	kJ/mol	Joback Method
hfus	35.64	kJ/mol	Joback Method
hvap	81.19	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.532		Crippen Method
mcvol	235.960	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	2085.00		NIST Webbook
rinpol	2085.00		NIST Webbook
tb	822.98	K	Joback Method
tc	1049.66	K	Joback Method
tf	548.02	K	Joback Method
vc	0.895	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.60	J/molxK	822.98	Joback Method
cpg	622.67	J/molxK	860.76	Joback Method
cpg	632.78	J/molxK	898.54	Joback Method
cpg	641.93	J/molxK	936.32	Joback Method
cpg	650.15	J/molxK	974.10	Joback Method
cpg	657.48	J/molxK	1011.88	Joback Method
cpg	663.93	J/molxK	1049.66	Joback Method
dvisc	0.0004186	Paxs	548.02	Joback Method

dvisc	0.0002744	Paxs	593.85	Joback Method
dvisc	0.0001911	Paxs	639.67	Joback Method
dvisc	0.0001397	Paxs	685.50	Joback Method
dvisc	0.0001062	Paxs	731.33	Joback Method
dvisc	0.0000834	Paxs	777.15	Joback Method
dvisc	0.0000672	Paxs	822.98	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U363645&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363645&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>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>h<sub>vap</sub>:</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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