

# Dimethyl 2,3,4,4-tetrachloro-2-pentenedioate

**Inchi:** InChI=1S/C7H6Cl4O4/c1-14-5(12)3(8)4(9)7(10,11)6(13)15-2/h1-2H3/b4-3+  
**InchiKey:** SBIOMHBKZIAVLQ-ONEGZZNKSA-N  
**Formula:** C7H6Cl4O4  
**SMILES:** COC(=O)C(Cl)=C(Cl)C(Cl)(Cl)C(=O)OC  
**Mol. weight [g/mol]:** 295.93

## Physical Properties

Property code	Value	Unit	Source
gf	-441.54	kJ/mol	Joback Method
hf	-651.48	kJ/mol	Joback Method
hfus	26.42	kJ/mol	Joback Method
hvap	65.85	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.196		Crippen Method
mcvol	169.030	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
rinpol	1496.00		NIST Webbook
rinpol	1496.00		NIST Webbook
tb	662.55	K	Joback Method
tc	892.33	K	Joback Method
tf	402.07	K	Joback Method
vc	0.642	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.71	J/mol×K	662.55	Joback Method
cpg	357.54	J/mol×K	700.85	Joback Method
cpg	364.71	J/mol×K	739.14	Joback Method
cpg	371.26	J/mol×K	777.44	Joback Method
cpg	377.23	J/mol×K	815.74	Joback Method
cpg	382.66	J/mol×K	854.03	Joback Method
cpg	387.57	J/mol×K	892.33	Joback Method

# Sources

<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=R80223&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80223&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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