

# Dimethylmalonic acid, 2,4-dichloro-6-formylphenyl octyl ester

Inchi:	InChI=1S/C20H26Cl2O5/c1-4-5-6-7-8-9-10-26-18(24)20(2,3)19(25)27-17-14(13-23)11-15
InchiKey:	IXMHHWOGUWIWNY-UHFFFAOYSA-N
Formula:	C20H26Cl2O5
SMILES:	CCCCCCCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)cc(Cl)cc1C=O
Mol. weight [g/mol]:	417.32

## Physical Properties

Property code	Value	Unit	Source
gf	-387.34	kJ/mol	Joback Method
hf	-869.42	kJ/mol	Joback Method
hfus	49.27	kJ/mol	Joback Method
hvap	96.88	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	5.641		Crippen Method
mcvol	309.830	ml/mol	McGowan Method
pc	1331.01	kPa	Joback Method
rinpol	2629.00		NIST Webbook
rinpol	2629.00		NIST Webbook
tb	971.49	K	Joback Method
tc	1194.48	K	Joback Method
tf	627.72	K	Joback Method
vc	1.200	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	938.13	J/molxK	971.49	Joback Method
cpg	986.08	J/molxK	1157.32	Joback Method
cpg	978.66	J/molxK	1120.15	Joback Method
cpg	970.20	J/molxK	1082.99	Joback Method
cpg	960.66	J/molxK	1045.82	Joback Method
cpg	949.98	J/molxK	1008.66	Joback Method
cpg	992.50	J/molxK	1194.48	Joback Method
dvisc	0.0000340	Paxs	971.49	Joback Method

dvisc	0.0000428	Paxs	914.19	Joback Method
dvisc	0.0000557	Paxs	856.90	Joback Method
dvisc	0.0000752	Paxs	799.61	Joback Method
dvisc	0.0001062	Paxs	742.31	Joback Method
dvisc	0.0001591	Paxs	685.01	Joback Method
dvisc	0.0002566	Paxs	627.72	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=U363637&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363637&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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