

# Diethylmalonic acid, butyl 2,4,6-trichlorophenyl ester

Inchi:	InChI=1S/C17H21Cl3O4/c1-4-7-8-23-15(21)17(5-2,6-3)16(22)24-14-12(19)9-11(18)10-13
InchiKey:	UOTIACQKZXACIO-UHFFFAOYSA-N
Formula:	C17H21Cl3O4
SMILES:	CCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]:	395.70

## Physical Properties

Property code	Value	Unit	Source
gf	-325.01	kJ/mol	Joback Method
hf	-737.66	kJ/mol	Joback Method
hfus	43.41	kJ/mol	Joback Method
hvap	87.87	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	5.702		Crippen Method
mcvol	278.230	ml/mol	McGowan Method
pc	1521.12	kPa	Joback Method
rinsol	2362.00		NIST Webbook
tb	891.62	K	Joback Method
tc	1112.64	K	Joback Method
tf	581.83	K	Joback Method
vc	1.063	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	777.94	J/molxK	891.62	Joback Method
cpg	827.34	J/molxK	1075.80	Joback Method
cpg	819.44	J/molxK	1038.97	Joback Method
cpg	810.59	J/molxK	1002.13	Joback Method
cpg	800.74	J/molxK	965.29	Joback Method
cpg	789.87	J/molxK	928.46	Joback Method
cpg	834.32	J/molxK	1112.64	Joback Method
dvisc	0.0000429	Paxs	891.62	Joback Method
dvisc	0.0000539	Paxs	839.99	Joback Method

dvisc	0.0000696	Paxs	788.36	Joback Method
dvisc	0.0000931	Paxs	736.72	Joback Method
dvisc	0.0001303	Paxs	685.09	Joback Method
dvisc	0.0001925	Paxs	633.46	Joback Method
dvisc	0.0003048	Paxs	581.83	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=U370148&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370148&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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