

# Diethylmalonic acid, 2,4-dichlorophenyl tridecyl ester

Inchi:	InChI=1S/C26H40Cl2O4/c1-4-7-8-9-10-11-12-13-14-15-16-19-31-24(29)26(5-2,6-3)25(30)
InchiKey:	XTSFSVMIPWNFKR-UHFFFAOYSA-N
Formula:	C26H40Cl2O4
SMILES:	CCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	487.50

## Physical Properties

Property code	Value	Unit	Source
gf	-227.67	kJ/mol	Joback Method
hf	-896.21	kJ/mol	Joback Method
hfus	62.91	kJ/mol	Joback Method
hvap	102.86	kJ/mol	Joback Method
log10ws	-9.31		Crippen Method
logp	8.559		Crippen Method
mvol	392.800	ml/mol	McGowan Method
pc	877.39	kPa	Joback Method
rinpol	3116.00		NIST Webbook
rinpol	3116.00		NIST Webbook
tb	1055.13	K	Joback Method
tc	1293.12	K	Joback Method
tf	640.82	K	Joback Method
vc	1.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1292.89	J/molxK	1055.13	Joback Method
cpg	1355.23	J/molxK	1253.46	Joback Method
cpg	1345.33	J/molxK	1213.79	Joback Method
cpg	1334.24	J/molxK	1174.13	Joback Method
cpg	1321.86	J/molxK	1134.46	Joback Method
cpg	1308.11	J/molxK	1094.80	Joback Method
cpg	1364.01	J/molxK	1293.12	Joback Method
dvisc	0.0000121	Paxs	1055.13	Joback Method

dvisc	0.0000158	Paxs	986.08	Joback Method
dvisc	0.0000215	Paxs	917.03	Joback Method
dvisc	0.0000307	Paxs	847.97	Joback Method
dvisc	0.0000467	Paxs	778.92	Joback Method
dvisc	0.0000771	Paxs	709.87	Joback Method
dvisc	0.0001416	Paxs	640.82	Joback Method

## Sources

<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=U369575&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369575&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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