

# Diethylmalonic acid, 2-chloro-5-methylphenyl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C29H47ClO4/c1-5-8-9-10-11-12-13-14-15-16-17-18-19-22-33-27(31)29(6-2,7-3
<b>InchiKey:</b>	MOUJJIKRXIHPS-UHFFFAOYSA-N
<b>Formula:</b>	C29H47ClO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1cc(C)ccc1Cl
<b>Mol. weight [g/mol]:</b>	495.13

## Physical Properties

Property code	Value	Unit	Source
gf	-190.48	kJ/mol	Joback Method
hf	-942.39	kJ/mol	Joback Method
hfus	66.49	kJ/mol	Joback Method
hvap	105.15	kJ/mol	Joback Method
log10ws	-9.94		Crippen Method
logp	8.995		Crippen Method
mvol	422.830	ml/mol	McGowan Method
pc	760.16	kPa	Joback Method
rinpol	3247.00		NIST Webbook
rinpol	3247.00		NIST Webbook
tb	1086.34	K	Joback Method
tc	1338.15	K	Joback Method
tf	644.71	K	Joback Method
vc	1.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1457.32	J/molxK	1086.34	Joback Method
cpg	1474.68	J/molxK	1128.31	Joback Method
cpg	1490.30	J/molxK	1170.28	Joback Method
cpg	1504.29	J/molxK	1212.25	Joback Method
cpg	1516.78	J/molxK	1254.21	Joback Method
cpg	1527.87	J/molxK	1296.18	Joback Method
cpg	1537.70	J/molxK	1338.15	Joback Method
dvisc	0.0001216	Paxs	644.71	Joback Method

dvisc	0.0000632	Paxs	718.32	Joback Method
dvisc	0.0000371	Paxs	791.92	Joback Method
dvisc	0.0000238	Paxs	865.52	Joback Method
dvisc	0.0000164	Paxs	939.13	Joback Method
dvisc	0.0000119	Paxs	1012.73	Joback Method
dvisc	0.0000090	Paxs	1086.34	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=U370464&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370464&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>

## 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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