

# Diethylmalonic acid, 2,3,5-trichlorophenyl undecyl ester

<b>Inchi:</b>	InChI=1S/C24H35Cl3O4/c1-4-7-8-9-10-11-12-13-14-15-30-22(28)24(5-2,6-3)23(29)31-20
<b>InchiKey:</b>	BSVCONJEXKTHTP-UHFFFAOYSA-N
<b>Formula:</b>	C24H35Cl3O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1cc(Cl)cc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	493.89

## Physical Properties

Property code	Value	Unit	Source
gf	-266.07	kJ/mol	Joback Method
hf	-882.14	kJ/mol	Joback Method
hfus	61.54	kJ/mol	Joback Method
hvap	103.45	kJ/mol	Joback Method
log10ws	-9.16		Crippen Method
logp	8.433		Crippen Method
mcvol	376.860	ml/mol	McGowan Method
pc	954.96	kPa	Joback Method
rinpol	3020.00		NIST Webbook
rinpol	3020.00		NIST Webbook
tb	1051.78	K	Joback Method
tc	1287.77	K	Joback Method
tf	660.72	K	Joback Method
vc	1.456	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1191.03	J/molxK	1051.78	Joback Method
cpg	1245.07	J/molxK	1248.44	Joback Method
cpg	1236.71	J/molxK	1209.11	Joback Method
cpg	1227.20	J/molxK	1169.78	Joback Method
cpg	1216.47	J/molxK	1130.44	Joback Method
cpg	1204.44	J/molxK	1091.11	Joback Method
cpg	1252.34	J/molxK	1287.77	Joback Method
dvisc	0.0000142	Paxs	1051.78	Joback Method

dvisc	0.0000182	Paxs	986.60	Joback Method
dvisc	0.0000242	Paxs	921.43	Joback Method
dvisc	0.0000335	Paxs	856.25	Joback Method
dvisc	0.0000489	Paxs	791.07	Joback Method
dvisc	0.0000765	Paxs	725.90	Joback Method
dvisc	0.0001306	Paxs	660.72	Joback Method

## Sources

<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=U370553&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370553&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>

## 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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