

# Diethylmalonic acid, 4-chloro-2-methylphenyl hexyl ester

Inchi:	InChI=1S/C20H29ClO4/c1-5-8-9-10-13-24-18(22)20(6-2,7-3)19(23)25-17-12-11-16(21)14
InchiKey:	XHYHSZIKVLJGJD-UHFFFAOYSA-N
Formula:	C20H29ClO4
SMILES:	CCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Cl)cc1C
Mol. weight [g/mol]:	368.89

## Physical Properties

Property code	Value	Unit	Source
gf	-266.26	kJ/mol	Joback Method
hf	-756.63	kJ/mol	Joback Method
hfus	43.18	kJ/mol	Joback Method
hvap	85.11	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	5.484		Crippen Method
mcvol	296.020	ml/mol	McGowan Method
pc	1309.90	kPa	Joback Method
rinsol	2359.00		NIST Webbook
tb	880.42	K	Joback Method
tc	1091.11	K	Joback Method
tf	543.28	K	Joback Method
vc	1.133	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	904.87	J/molxK	880.42	Joback Method
cpg	919.87	J/molxK	915.53	Joback Method
cpg	933.72	J/molxK	950.65	Joback Method
cpg	946.46	J/molxK	985.76	Joback Method
cpg	958.13	J/molxK	1020.88	Joback Method
cpg	968.77	J/molxK	1055.99	Joback Method
cpg	978.42	J/molxK	1091.11	Joback Method
dvisc	0.0003763	Paxs	543.28	Joback Method
dvisc	0.0002140	Paxs	599.47	Joback Method

dvisc	0.0001340	Paxs	655.66	Joback Method
dvisc	0.0000904	Paxs	711.85	Joback Method
dvisc	0.0000646	Paxs	768.04	Joback Method
dvisc	0.0000483	Paxs	824.23	Joback Method
dvisc	0.0000375	Paxs	880.42	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370110&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370110&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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

Latest version available from:

<https://www.chemeo.com/cid/15-822-2/Diethylmalonic-acid-4-chloro-2-methylphenyl-hexyl-ester.pdf>

Generated by Cheméo on 2025-12-05 15:14:30.1272342 +0000 UTC m=+4695867.657274853.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.