

# Diethylmalonic acid, 2-chloro-6-fluorophenyl heptyl ester

<b>Inchi:</b>	InChI=1S/C20H28ClFO4/c1-4-7-8-9-10-14-25-18(23)20(5-2,6-3)19(24)26-17-15(21)12-1
<b>InchiKey:</b>	NNISHEYQQAHUHW-UHFFFAOYSA-N
<b>Formula:</b>	C20H28ClFO4
<b>SMILES:</b>	CCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(F)cccc1Cl
<b>Mol. weight [g/mol]:</b>	386.88

## Physical Properties

Property code	Value	Unit	Source
gf	-461.07	kJ/mol	Joback Method
hf	-952.74	kJ/mol	Joback Method
hfus	46.26	kJ/mol	Joback Method
hvap	84.30	kJ/mol	Joback Method
log10ws	-6.45		Crippen Method
logp	5.704		Crippen Method
mvol	297.790	ml/mol	McGowan Method
pc	1268.25	kPa	Joback Method
rinpol	2350.00		NIST Webbook
rinpol	2350.00		NIST Webbook
tb	879.69	K	Joback Method
tc	1086.28	K	Joback Method
tf	543.87	K	Joback Method
vc	1.151	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	912.12	J/molxK	879.69	Joback Method
cpg	926.72	J/molxK	914.12	Joback Method
cpg	940.21	J/molxK	948.55	Joback Method
cpg	952.63	J/molxK	982.99	Joback Method
cpg	964.02	J/molxK	1017.42	Joback Method
cpg	974.42	J/molxK	1051.85	Joback Method
cpg	983.87	J/molxK	1086.28	Joback Method

# Sources

<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.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>
<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=U369678&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369678&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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.cheméo.com/cid/117-698-8/Diethylmalonic-acid-2-chloro-6-fluorophenyl-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-28 18:49:31.781654552 +0000 UTC m=+16619420.702231863.

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