

# Dimethylmalonic acid, nonyl pentachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C20H25Cl5O4/c1-4-5-6-7-8-9-10-11-28-18(26)20(2,3)19(27)29-17-15(24)13(22)
<b>InchiKey:</b>	XIDDLXUPAOUEPY-UHFFFAOYSA-N
<b>Formula:</b>	C20H25Cl5O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	506.68

## Physical Properties

Property code	Value	Unit	Source
gf	-342.87	kJ/mol	Joback Method
hf	-854.00	kJ/mol	Joback Method
hfus	58.80	kJ/mol	Joback Method
hvap	104.64	kJ/mol	Joback Method
log10ws	-8.85		Crippen Method
logp	8.179		Crippen Method
mvol	344.980	ml/mol	McGowan Method
pc	1144.44	kPa	Joback Method
rinpol	3142.00		NIST Webbook
rinpol	3142.00		NIST Webbook
tb	1045.08	K	Joback Method
tc	1281.33	K	Joback Method
tf	700.52	K	Joback Method
vc	1.329	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	988.25	J/molxK	1045.08	Joback Method
cpg	998.23	J/molxK	1084.45	Joback Method
cpg	1006.99	J/molxK	1123.83	Joback Method
cpg	1014.56	J/molxK	1163.20	Joback Method
cpg	1021.00	J/molxK	1202.58	Joback Method
cpg	1026.35	J/molxK	1241.95	Joback Method
cpg	1030.65	J/molxK	1281.33	Joback Method
dvisc	0.0001168	Paxs	700.52	Joback Method

dvisc	0.0000774	Paxs	757.95	Joback Method
dvisc	0.0000543	Paxs	815.37	Joback Method
dvisc	0.0000400	Paxs	872.80	Joback Method
dvisc	0.0000305	Paxs	930.23	Joback Method
dvisc	0.0000241	Paxs	987.65	Joback Method
dvisc	0.0000195	Paxs	1045.08	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U363930&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U363930&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>

## 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/119-743-5/Dimethylmalonic-acid-nonyl-pentachlorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-29 21:30:48.536913172 +0000 UTC m=+16715497.457490488.

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