

# Nonanoic acid, 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C15H19Cl3O2/c1-2-3-4-5-6-7-8-15(19)20-14-10-12(17)11(16)9-13(14)18/h9-10
<b>InchiKey:</b>	CRUCWHJNZNUXBY-UHFFFAOYSA-N
<b>Formula:</b>	C15H19Cl3O2
<b>SMILES:</b>	CCCCCCCCC(=O)Oc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	337.67

## Physical Properties

Property code	Value	Unit	Source
gf	-110.77	kJ/mol	Joback Method
hf	-442.83	kJ/mol	Joback Method
hfus	42.86	kJ/mol	Joback Method
hvap	75.56	kJ/mol	Joback Method
log10ws	-6.77		Crippen Method
logp	6.303		Crippen Method
mvol	242.610	ml/mol	McGowan Method
pc	1683.79	kPa	Joback Method
rinpol	2272.00		NIST Webbook
rinpol	2272.00		NIST Webbook
tb	772.80	K	Joback Method
tc	983.51	K	Joback Method
tf	484.71	K	Joback Method
vc	0.939	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	627.11	J/molxK	772.80	Joback Method
cpg	684.82	J/molxK	948.39	Joback Method
cpg	674.95	J/molxK	913.27	Joback Method
cpg	664.27	J/molxK	878.15	Joback Method
cpg	652.75	J/molxK	843.04	Joback Method
cpg	640.37	J/molxK	807.92	Joback Method
cpg	693.89	J/molxK	983.51	Joback Method
dvisc	0.0001000	Paxs	772.80	Joback Method

dvisc	0.0001237	Paxs	724.78	Joback Method
dvisc	0.0001578	Paxs	676.77	Joback Method
dvisc	0.0002088	Paxs	628.75	Joback Method
dvisc	0.0002895	Paxs	580.74	Joback Method
dvisc	0.0004257	Paxs	532.73	Joback Method
dvisc	0.0006757	Paxs	484.71	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360673&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360673&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

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