

# Nonanoic acid, 4-nitrophenyl ester

<b>Other names:</b>	Nonoic acid, 4-nitrophenyl ester
<b>Inchi:</b>	InChI=1S/C15H21NO4/c1-2-3-4-5-6-7-8-15(17)20-14-11-9-13(10-12-14)16(18)19/h9-12H
<b>InchiKey:</b>	TZQXKOGMKYABTL-UHFFFAOYSA-N
<b>Formula:</b>	C15H21NO4
<b>SMILES:</b>	CCCCCCCCC(=O)Oc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	279.33

## Physical Properties

Property code	Value	Unit	Source
gf	-20.17	kJ/mol	Joback Method
hf	-383.43	kJ/mol	Joback Method
hfus	42.41	kJ/mol	Joback Method
hvap	77.67	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.251		Crippen Method
mvol	223.310	ml/mol	McGowan Method
pc	1916.94	kPa	Joback Method
rinpol	2239.00		NIST Webbook
rinpol	2239.00		NIST Webbook
tb	802.39	K	Joback Method
tc	1021.16	K	Joback Method
tf	513.52	K	Joback Method
vc	0.874	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	660.01	J/molxK	802.39	Joback Method
cpg	674.29	J/molxK	838.85	Joback Method
cpg	687.53	J/molxK	875.31	Joback Method
cpg	699.75	J/molxK	911.78	Joback Method
cpg	711.01	J/molxK	948.24	Joback Method
cpg	721.32	J/molxK	984.70	Joback Method
cpg	730.73	J/molxK	1021.16	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=U358028&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358028&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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

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