

# Nonanoic acid, 3-methylphenyl ester

<b>Other names:</b>	Nonoic acid, 3-methylphenyl ester
<b>Inchi:</b>	InChI=1S/C16H24O2/c1-3-4-5-6-7-8-12-16(17)18-15-11-9-10-14(2)13-15/h9-11,13H,3-8,
<b>InchiKey:</b>	GEXXBWMUHRSWIH-UHFFFAOYSA-N
<b>Formula:</b>	C16H24O2
<b>SMILES:</b>	CCCCCCCCC(=O)Oc1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	248.36

## Physical Properties

Property code	Value	Unit	Source
gf	-47.30	kJ/mol	Joback Method
hf	-393.31	kJ/mol	Joback Method
hfus	33.63	kJ/mol	Joback Method
hvap	63.30	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.651		Crippen Method
mcvol	219.980	ml/mol	McGowan Method
pc	1747.74	kPa	Joback Method
rinpol	1880.00		NIST Webbook
tb	673.43	K	Joback Method
tc	869.56	K	Joback Method
tf	381.18	K	Joback Method
vc	0.848	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	599.73	J/molxK	673.43	Joback Method
cpg	675.69	J/molxK	836.87	Joback Method
cpg	662.26	J/molxK	804.18	Joback Method
cpg	647.97	J/molxK	771.49	Joback Method
cpg	632.81	J/molxK	738.81	Joback Method
cpg	616.73	J/molxK	706.12	Joback Method
cpg	688.29	J/molxK	869.56	Joback Method
dvisc	0.0001210	Paxs	673.43	Joback Method

dvisc	0.0001555	Paxs	624.72	Joback Method
dvisc	0.0002086	Paxs	576.01	Joback Method
dvisc	0.0002953	Paxs	527.31	Joback Method
dvisc	0.0004486	Paxs	478.60	Joback Method
dvisc	0.0007494	Paxs	429.89	Joback Method
dvisc	0.0014273	Paxs	381.18	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=U358026&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358026&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

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