

# 4-Nonylphenol

<b>Other names:</b>	4-n-Nonyl phenol 4-n-Nonylphenol Phenol, 4-nonyl- Phenol, p-nonyl- p-Nonylphenol para Nonyl phenol
<b>Inchi:</b>	InChI=1S/C15H24O/c1-2-3-4-5-6-7-8-9-14-10-12-15(16)13-11-14/h10-13,16H,2-9H2,1H3
<b>InchiKey:</b>	IGFHQQFPSIBGKE-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CCCCCCCCCc1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	220.35
<b>CAS:</b>	104-40-5

## Physical Properties

Property code	Value	Unit	Source
gf	33.21	kJ/mol	Joback Method
hf	-293.71	kJ/mol	Joback Method
hfus	34.43	kJ/mol	Joback Method
hvap	64.27	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.685		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpol	1889.00		NIST Webbook
rinpol	1883.40		NIST Webbook
rinpol	1877.00		NIST Webbook
rinpol	1871.80		NIST Webbook
rinpol	1871.80		NIST Webbook
rinpol	1876.70		NIST Webbook
ripol	2900.00		NIST Webbook
tb	649.90	K	Joback Method
tc	851.69	K	Joback Method
tf	396.95	K	Joback Method
vc	0.734	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.92	J/molxK	851.69	Joback Method
cpg	557.62	J/molxK	649.90	Joback Method
cpg	574.41	J/molxK	683.53	Joback Method
cpg	590.28	J/molxK	717.16	Joback Method
cpg	605.29	J/molxK	750.79	Joback Method
cpg	619.51	J/molxK	784.42	Joback Method
cpg	633.03	J/molxK	818.05	Joback Method
dvisc	0.0000195	Paxs	649.90	Joback Method
dvisc	0.0012797	Paxs	396.95	Joback Method
dvisc	0.0004557	Paxs	439.11	Joback Method
dvisc	0.0001945	Paxs	481.27	Joback Method
dvisc	0.0000952	Paxs	523.42	Joback Method
dvisc	0.0000518	Paxs	565.58	Joback Method
dvisc	0.0000307	Paxs	607.74	Joback Method
hvapt	65.00	kJ/mol	541.00	NIST Webbook

## Sources

<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=C104405&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C104405&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>KDB:</b>	<a href="https://www.cheric.org/files/research/kdb/mol/mol891.mol">https://www.cheric.org/files/research/kdb/mol/mol891.mol</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>ripol:</b>	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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