

# p-Nitrophenyl nonyl ether

<b>Other names:</b>	Benzene, 1-nitro-4-(nonyloxy)- 4-Nitrophenyl nonyl ether
<b>Inchi:</b>	InChI=1S/C15H23NO3/c1-2-3-4-5-6-7-8-13-19-15-11-9-14(10-12-15)16(17)18/h9-12H,2-
<b>InchiKey:</b>	JLSCIQUWVGKSDH-UHFFFAOYSA-N
<b>Formula:</b>	C15H23NO3
<b>SMILES:</b>	CCCCCCCCCOc1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	265.35
<b>CAS:</b>	86702-46-7

## Physical Properties

Property code	Value	Unit	Source
gf	108.75	kJ/mol	Joback Method
hf	-270.85	kJ/mol	Joback Method
hfus	40.81	kJ/mol	Joback Method
hvap	70.92	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	4.724		Crippen Method
mvol	221.740	ml/mol	McGowan Method
pc	1815.41	kPa	Joback Method
tb	748.52	K	Joback Method
tc	961.29	K	Joback Method
tf	463.59	K	Joback Method
vc	0.868	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	643.84	J/molxK	748.52	Joback Method
cpg	659.85	J/molxK	783.98	Joback Method
cpg	674.83	J/molxK	819.44	Joback Method
cpg	688.81	J/molxK	854.90	Joback Method
cpg	701.82	J/molxK	890.36	Joback Method
cpg	713.91	J/molxK	925.83	Joback Method
cpg	725.11	J/molxK	961.29	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	450.00 ± 1.00	K	0.70	NIST Webbook

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C86702467&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C86702467&amp;Units=SI</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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/18-859-9/p-Nitrophenyl-nonyl-ether.pdf>

Generated by Cheméo on 2024-04-18 06:24:20.446592022 +0000 UTC m=+15710709.367169343.

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