

# Benzeneethanol, 2-nitro-

<b>Other names:</b>	2-Nitrobenzeneethanol 2-Nitrophenethyl alcohol Phenethyl alcohol, o-nitro- 2-(o-Nitrophenyl)ethanol 2-(o-Nitrophenyl)ethyl alcohol
<b>Inchi:</b>	InChI=1S/C8H9NO3/c10-6-5-7-3-1-2-4-8(7)9(11)12/h1-4,10H,5-6H2
<b>InchiKey:</b>	SLRIOXRBAPBGEI-UHFFFAOYSA-N
<b>Formula:</b>	C8H9NO3
<b>SMILES:</b>	O=[N+](O)c1ccccc1CCO
<b>Mol. weight [g/mol]:</b>	167.16
<b>CAS:</b>	15121-84-3

## Physical Properties

Property code	Value	Unit	Source
gf	17.99	kJ/mol	Joback Method
hf	-146.38	kJ/mol	Joback Method
hfus	25.58	kJ/mol	Joback Method
hvap	69.61	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	1.130		Crippen Method
mcvol	123.110	ml/mol	McGowan Method
pc	4077.71	kPa	Joback Method
tb	540.20	K	NIST Webbook
tc	881.82	K	Joback Method
tf	423.29	K	Joback Method
vc	0.476	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.91	J/molxK	658.12	Joback Method
cpg	318.61	J/molxK	695.40	Joback Method
cpg	327.62	J/molxK	732.69	Joback Method
cpg	335.99	J/molxK	769.97	Joback Method

cpg	343.74	J/mol×K	807.26	Joback Method
cpg	350.92	J/mol×K	844.54	Joback Method
cpg	357.55	J/mol×K	881.82	Joback Method

## Sources

<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=C15121843&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15121843&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>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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