

# Benzeneacetic acid, 4-nitro-, oct-3-en-2-yl ester

Inchi:	InChI=1S/C16H21NO4/c1-3-4-5-6-7-13(2)21-16(18)12-14-8-10-15(11-9-14)17(19)20/h6-
InchiKey:	QLVJLOPSGSCVAP-VOTSOKGWSA-N
Formula:	C16H21NO4
SMILES:	CCCCC=CC(C)OC(=O)Cc1ccc([N+](=O)[O-])cc1
Mol. weight [g/mol]:	291.34

## Physical Properties

Property code	Value	Unit	Source
gf	66.03	kJ/mol	Joback Method
hf	-292.13	kJ/mol	Joback Method
hfus	41.67	kJ/mol	Joback Method
hvap	79.47	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	3.815		Crippen Method
mvol	233.100	ml/mol	McGowan Method
pc	1857.91	kPa	Joback Method
rinpol	2199.00		NIST Webbook
rinpol	2199.00		NIST Webbook
tb	828.99	K	Joback Method
tc	1055.21	K	Joback Method
tf	504.71	K	Joback Method
vc	0.903	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	690.33	J/mol×K	828.99	Joback Method
cpg	704.59	J/mol×K	866.69	Joback Method
cpg	717.79	J/mol×K	904.40	Joback Method
cpg	729.99	J/mol×K	942.10	Joback Method
cpg	741.25	J/mol×K	979.80	Joback Method
cpg	751.64	J/mol×K	1017.50	Joback Method
cpg	761.20	J/mol×K	1055.21	Joback Method

# 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=U406978&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406978&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.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>

# 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>rinpola:</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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